CA

103

ATOH

ASP

49.204

3.570

46.263

A may range it

PCT/AU98/00998

Figure 1

ATOM 1 · CR GLU 1 55,907 11.986 1.00 59.11 AAAA C 66.300 ATOU CG GLU 1 56.138 11.013 65.162 1.00 79.17 AAAA C CD AAAA C **ATOH** GLU 57.382 11.319 64.321 1.00 85.10 ATOH OE1 GLU 58.404 10.754 64.796 1.00 86.18 AAAA O ATOH OE2 GLU AAAA O 57.424 12.013 63.270 1.00 78.70 ATOH С GLU AAAA C 53.508 12.557 66.350 1.00 48.46 AAAA O 0 ATOH GLU 52.685 11.863 65.784 1.00 51.27 ATOH 10 11 GLU AAAA II 54.256 10.338 67.159 1.00 61.64 HOTA 12 CA AAAA C GLU 54.602 11.778 67.081 1.00 54.77 ATON 13 AAAA II ILE 53,608 13.860 66.375 1.00 37.66 AAAA C HOTA CA ILE 52.769 14.699 1.00 40.87 65.604 ATOH CB ILE 52.925 1.00 41.97 AAAA C 16.122 66.160 52.036 52.560 HOTA 17 CG2 ILE 1.00 38.50 AAAA C 17.122 65.484 ATOL 18 CG1 ILE 67.663 AAAA C 1.00 46.56 16.006 HOTA 19 CD1 ILE 53.150 1.00 32.29 AAAA C 17.176 68.498 20 ATOL ILE 1.00 46.47 AAAA C 53.122 64.139 14.711 11OTA 0 AAAA O 21 ILE 54.258 15.029 63.852 1.00 51.65 ATOH 11 CYS 52.235 14.409 63.196 1.00 49.61 AAAA II HOTA CA CYS 3 52.435 AAAA C 14.677 61.773 1.00 38.93 NOTA. 25 С CYS 1.00 42.06 AAAA C 3 51.429 15.708 61.302 HOTA 26 0 CYS 3 1.00 42.37 AAAA O 50.290 15.521 61.690 AAAA C HOTA 27 CB CYS 3 52.159 13.415 60.999 1.00 35.66 NOTA 28 SG CYS 3 53.019 12.004 61.674 1.00 36.98 AAAA S MOTA 29 11 GLY AAAA I! 51.851 16.709 60.580 1.00 42.39 ATOH 31 CA GLT 17.718 AAAA C 50.973 60.003 1.00 47.71 ATOM 32 C GLï 51.703 1.00 48.23 AAAA C 18.407 58.869 ATOI1 33 O GLT 4 1.00 55.36 AAAA O 52.916 18.345 58.884 MOTA 34 11 PRO 5 1.00 49.63 AAAA II 51.056 19.212 58.048 ATOH: 35 CD PRO 1.00 45.28 AAAA C 51.637 19.947 56.860 ATOH 36 CA PRO 1.00 41.57 AAAA C 49.605 19.341 58.083 ATOH 37 CB PRO 5 49.397 20.703 57.474 1.00 44.30 AAAA C **HOTA** 38 CG PRO 50.632 21.036 56.683 1.00 46.43 AAAA C MOTA 30 С PRO 5 48.932 57.354 1.00 36.40 AAAA C 18.217 11OTA 40 0 PRO 49.403 17.094 57.396 1.00 43.35 AAAA O HOTA 41 Н GLY б 47.787 18.438 56.795 1.00 39.15 II AAAA CA HOTA 43 GLY 6 46.896 17.336 56.350 1.00 39.24 AAAA C С ATOM 44 GLT 6 47.710 16.365 55.529 1.00 33.68 AAAA C 45 ATOH 0 GLY 6 48.510 16.863 54.753 1.00 36.00 AAAA O HOTA п 46 ILE 47.586 15.111 55.788 1.00 35.70 AAAA N AAAA C AAAA C AAAA C AAAA C AAAA C CA ATOM 48 ILE 48.307 14.053 55.141 1.00 37.65 FIOTA СВ 49 ILE 48.556 12.797 55.933 1.00 36.31 CG2 ILE ATOH 11.700 1.00 34.67 50 49.043 54.988 CG1 ILE 7 ATOH: 51 49.561 12.857 57.067 1.00 39.34 CD1 ILE ATOH 52 7 57.668 49.678 14.249 1.00 40.22 AAAA C ATOI1 53 С ILE 47.338 13.762 53.977 1.00 45.00 HOTA 54 0 13.843 54.195 52.751 1.00 51.52 ILE 46.150 1.00 45.60 ATO!1 55 47.767 LI AAAA 11 8 ASP 13.631 57 CA ASP AAAA C A'TOI-1 51.631 1.00 44.05 В 46.938 13.283 CB C ATOH 58 ASP 1.00 44.21 47,003 AAAA Ù 14.469 50.651 AAAA C LIOTA e, q CG ASP 8 45.909 14.379 1.00 43.48 49.600 OD1 ASP ATOH 60 45.660 49.096 1.00 51.77 AAAA O 8 13.262 OD2 ASP ATOH 61 8 45.253 15.374 49.251 1.00 45.84 AAAA O ASP ATO! I 62 C 8 47.428 50.992 1.00 42.16 AAAA 12,000 HOTA 63 0 ASP 8 1.00 48.50 AAAA O 48,423 12.143 50.330 ATOH. 64 П ILE a 1.00 42.76 AAAA II 47.096 10.817 51.321 ATCH CA 1.00 44.05 AAAA C 66 ILE 47.441 9.505 50.939 67 СВ 52.077 ATOH ILE 47.212 8.483 AAAA 1.00 40.82 С HOTA CG2 ģ 1.00 36.35 AAAA 68 ILE 7.085 51.653 47.669 HOTA 69 CG1 ILE AAAA 17.888 8.917 1.00 41.17 c53.364 ATOH 70 CD1 ILE 9 8.947 1.09 43.78 AAAA C 49.376 53.286 71 C ATOH ILE 46.530 9.137 49.794 1.00 51.48 AAAA HOTA 72 0 ILE 49.832 AAAA O 45.338 9.420 1.00 63.05 ATOI-I 11 ARG 10 47.004 8.417 1.00 54.87 и лааа 48.812 AT'OH 75 CA ARG 10 46.283 8.089 47.600 1.00 54.17 AAAA 45.703 ATO!! CB ARG 1υ 9.358 47.023 1.00 48.54 AAAA ATOH 77 CG ARG 46.361 10.169 45.952 1.00 46.55 AAAA ATOI1 78 CD ARG 10 46.002 11.635 46.264 1.00 52.63 AAAA ATOI: 79 HE ARG 45.082 1.00 59.27 10 12.226 45.284 II AAAA II 81 ATOH CZ ARG 10 13.262 45.498 44.269 1.00 56.22 AAAA HOTA 82 11111 ARG 10 44.153 13.891 1.00 55.14 AAAA I! 46.666 HH2 HOTA 85 ARG 10 43.455 13.803 1.00 52.29 AAAA II 44.602 ATO!! 88 c ARG 10 47.019 7.373 46.492 1.00 57.23 AAAA. ATC:1 89 0 ARG 10 48.240 7.288 46.281 1.00 56.32 AAAA O ATOH 90 11 ASII 11 46.248 6.654 45.629 1.00 57.23 II AAAA HOTA 92 CA ASII 5.917 1.00 50.73 AAAA 11 46,800 44.494 ATOH СВ 93 ASII 11 47.704 6.798 43.671 1.00 44.65 AAAA. ATO! I CG ASII 46.878 7.732 1.00 50.72 AAAA 42,829 ATOH 95 ODL **ASII** 11 AAAA O 45.749 7.451 1.00 72.59 42.403 ATO! HD2 ASII 47.499 1.00 54.38 II AAAA 11 8.869 42.587 aa ATOH C ASII 44.915 1.00 53.07 AAAA C 11 47.635 4.736 100 0 LIOTA ASII 11 47,303 3.701 44.347 1.00 51.95 AAAA O ATOH 101 t: ASP 45.878 1.00 50.96 AAAA II 1.2 4.822 48.566

1.00 55.44

AAAA C

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ATOH	104	CB	ASP	12	50.669	3.568	45.758	1.00 66.47	AAAA E
ATOH	105 106	CO	ASP ASP	12	50.879	4.026	14.314	1.00 68.25	AAAA C
HOTA	105		ASP	12	50.441 51.391	3.185 5.120	43.457 43.989	1.00 58.31 1.00 70.56	AAAA O
ATOH	108	C	ASP	12	49.061	3.322	17.758	1.00 59.23	AAAA C
ATOH	109	0	ASP	12	19.687	3.849	48.711	1.00 59.65	AAAA O
ATOH	110	11	Tirk	13	48.411	2.187	48.036	1.00 59.64	II AAAA II
ATOH ATOH	112	CA CB	TTR	13 13	48.328 47.968	1.672 0.196	49.397 49.409	1.00 64.06 1.00 64.56	AAAA C AAAA C
ATOH	114	CG	TYR	13	47.467	-0.357	50.721	1.00 69.18	AAAA C
ATCH	115	CDI	TTR	13	46.216	-0.024	51.249	1.00 72.71	AAAA C
HOTA	116	CE1		13	15.746	-0.541	52.450	1.00 71.51	AAAA C
ATON	117	CD2	TIR	13	48.233	-1.247	51.457	1.00 70.36	AAAA C
ATOM ATOM	118 119	CES CES	TYR TYR	i 3 1 3	47.788 46.542	-1.778 -1.420	52.661 53.160	1.00 71.64	AAAA C AAAA C
ATOH	120	ОН	TTR	13	46.144	-1.977	54.358	1.00 63.25	AAAA O
ATOH	122	C	TTR	13	49.622	1.839	50.198	1.00 65.99	AAAA C
ATOH	123	0	TYR		19.621	2.321	51.354	1.00 65.01	AAAA O
ATOH	124	1;	GLII	14	50.785	1.541	19.594	1.00 63.51	II AAAA
ATOH ATOH	126 127	CA CB	GIN GIN	14 14	52.078 53.174	1.681 1.318	50.218 49.219	1.00 63.51 1.00 68.37	AAAA C AAAA C
ATOH	128	CG	GLII	14	52.963	-0.078	18.686	1.00 84.62	AAAA C
11OTA	129	CD	GLII	14	53.990	-0.515	47.754	1.00 92.28	AAAA C
I-fOTA	130		GLII	14	53.945	-0.161	46.573	1.00 94.82	AAAA O
HOTA	131		GLN	14	54.920	-1.254	48.361	1.00 98.03	AAAA !!
ATOH	134	ن د	GLII	14	52.434	3.058	50.753	1.00 61.62 1.00 62.09	AAAA C AAAA C
ATOH ATOH	135 136	11	GEN	14 15	53.266 51.628	3.292 4.038	51.644 50.349	1.00 57.02	AAAA II
ATOH	138	СA	GLII	15	51.724	5.399	50.831	1.00 51.71	AAAA C
ATOH	139	CB	GLH	15	50.861	6.220	49.911	1.00 43.75	AAAA C
ATOH	140	CG	GLH	15	51.566	6.605	48.648	1.00 59.65	AAAA C
ATOH	141	CD	GLii	15	51.554	8.105	48.428	1.00 72.96	AAAA C
ATOH ATOH	142 143	NE2	GLII	15 15	51.168 52.016	9.005 8.378	49.184 47.211	1.00 80.58 1.00 74.17	AAAA O
ATOL	146	C	GLN	15	51.219	5.530	52.258	1.00 50.15	AAAA C
HOTA	147	0	GLII	15	51.576	6.500	52.940	1.00 48.04	AAAA C
NOTA	148	11	LEU	16	50.440	4.535	52.688	1.00 46.22	II AAAA
ATON	150	CA	LEU	16	49.913	4.449	54.019	1.00 45.52	AAAA C
ATOM ATOM	151 152	CB CG	LEU	16 16	48.950	3.295	54.159 53.707	1.00 37.73 1.00 41.40	AAAA C AAAA C
ATOM	153		LEU	16	47.502 46.837	3.425 2.063	53.790	1.00 42.43	AAAA C
ATOM	154		LEU	16	46.687	4.424	54.545	1.00 35.93	AAAA C
MOTA	155	С	LEU	16	51.042	4.280	55.039	1.00 51.52	AAAA C
ATOH	156	0	LEU	16	50.913	4.601	56.235	1.00 52.53	AAAA O
ATOH ATOH	157 159	II CA	LTS LTS	17 17	52.252	3.936	54.560 55.404	1.00 51.01 1.00 50.73	N AAAA C AAAA
ATOH	160	CB	LYS	17	53.422 54.609	3.914 3.252	54.737	1.00 56.10	AAAA C
ATOH	161	CG	LYS	17	54.539	1.733	54.831	1.00 62.40	AAAA C
ATON	162	CD	LYS	17	54.768	1.278	53.387	1.00 63.85	AAAA C
HOTA	163	CE	LYS	17	55.316	-0.141	53.426	1.00 68.40	AAAA C
ATOH ATOH	164 168	HS C	LYS LYS	17 17	56.537 53.944	-0.225 5.270	52.554 55.852	1.00 73.83	H AAAA C
ATOH	169	ō	LYS	17	54.492	5.262	56.933	1.00 39.39	AAAA C
ATOH	170	П	ARG	18	53.524	6.344	55.201	1.00 41.15	AAAA II
ATOH	172	CA	ARG	18	53.827	7.673	55.676	1.00 43.01	AAAA C
ATON	173	CB	ARG	18	53.250	8.702	54.704	1.00 43.97	AAAA C
ATOH ATOH	174 175	CD CG	ARG ARG	18 18	53.988	8.764	53.333 52.269	1.00 53.60	AAAA C AAAA C
HOTA	176	HE	ARG	18	52.964 52.528	9.362 10.703	52.650	1.00 50.00	AAAA II
ATOH	178	ÇZ	ARG	19	51.628	11.444	52.021	1.00 48.86	AAAA C
HOTA	179		ARG	18	51.069	10.941	50.943	1.00 47.96	AAAA II
ATOH	182		ARG	18	51.377	12.656	52.555	1.00 43.72	AAAA II
ATOH ATOH	185 186	c.	ARG ARG	18 18	53.268 53.402	7.924 9.010	57.077 57.644	1.00 44.03 1.00 45.53	AAAA C AAAA Q
ATOH	187	11	LEU	15	52.445	7.069	57.632	1.00 46.36	AAAA II
ATOH	189	CA	LEU	19	د 51.65	7.282	58.794	1.00 50.25	AAAA T
ATO!!	190	CB	LEU	19	50.196	6.924	58.674	1.00 50.83	AAAA C
ATOH	191	CG.	LEU	1.9	49.202	7.371	57.608	1.00 46.43	AAAA C
ATOH ATOH	192		LEU LEU	1 0 1 0	47.946	6.743 8.866	57.852 57.495	1.00 22.57 1.00 45.88	AAAA C AAAA C
ATOH	194	CDE	LEU	19	49.018 52.210	6.428	59.912	1.00 49.87	AAAA C
ATON	195	ó	LEU	19	51.970	6.810	61.030	1.00 51.54	AAAA O
ATOH	196	11	GLU	20	53.270	5.708	59.652	1.00 49.35	AAAA ::
ATOH:	198	CA	GLU	20	53.819	4.833	60.679	1.00 49.60	AAAA C
ATOH	199	CB	GLU	20	54.876	3.960	59.982	1.00 57.91 1.00 70.16	AAAA C AAAA C
ATOH ATOH	200 201	CD	GLU	20 20	55.893 57.095	4.840	59.272 58.757	1.00 70.16	AAAA C
ATOH	202		GLU	20	58.123	4.795	58.722	1.00 71.38	AAAA O
ATOH	203		GLU	20	56.993	2.885	58.420	1.00 72.84	AAAA C
ATOH	204	C	GLU	20	54.310	5.417	61.989	1.00 43.55	AAAA C
ATOH	205	0	GLU	20	54.301	4.652	62.937	1.00 40.01	AAAA C
ATON	206	Ců.	ASH	21	54.633	6.659	62.207	1.00 41.06	H AAAA
ATOH ATOH	208 209	CA C	ASH ASH	21	55.054 61.053	7.204 8.141	64.108	1.00 47.17 1.00 49.76	AAAA T
ATON	210	õ	ASII	21 21	54.066 54.228	8.156	65.303	1.00 48.10	AAAA c

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ATOI:	211	CB	ASH	21	56.379	8.003	63.099	1.00 59.11	AAAA C
HOTA	212	ĊĞ	ASII	21	57.413	7.951	62,706	1.00 68.38	AAAA C
HOTA	213	OD1	ASH	21	57.499	5.855	63.122	1.00 58.51	aaaa o
!IOTA	214	1102	ASH	21	58.348	7.469	61.890	1.00 77.00	II AAAA II
ATOH	216	1 i	CYS	22	53.129	8.711	63.351	1.00 47.44	AAAA II
INTA	218	CA	CYS	22	52.107	9.614	65.879	1.00 42.99	AAAA C
ATOH	219	C	CYS	22	51.215	9.089	65.021	1.00 40.43	аааа с
ATOH1	220	Q.	CYS	22	50.750	7.923	65.069	1.00 36.07	AAAA O
ATOH	221	CB	CYS	22	51.182	9.921	62.690	1.00 44.82	AAAA C
HOTA	222	SG	CYS	22	52.076	10.328	61.148	1.00 39.51	AAAA S
ATOH:	223	21	THR	23	51.287	9.801	56.137	1.00 36.24	AAAA 11
ATOH	225	CA	THR	23	50.339	9.482	67.204	1.00 43.51	AAAA C
ATOH	226	CE	THR	23	50.944	9.451	68.593	1.00 41.38	AAAA C
HOTA	227	031	THR	23	51.410	10.843	68.822	1.00 51.21	AAAA O
HOTA	229		THR	23	52.110	8.571	68.838	1.00 33.83	AAAA C
ATOH	230	С	THR	23	49.250	10.599	67.116	1.00 44.55	AAAA C
ATOH	231	o	THR	23	18.085	10.414	67.481	1.00 45.95	AAAA O
HOTA	232		VAL	24	49.646	11.797	65.689	1.00 33.03	AAAA II
ATON	234		VAL	24	48.732	12.855	66.442	1.00 35.29	AAAA C
ATOH	235		VAL	24	48.925	13.979	67.456	1.00 30.60	AAAA C
ATOH	236		VAL	24	48.056	15.157	67.082	1.00 27.21	AAAA C
ATOH	237		VAL	24	48.656	13.566	68.886	1.00 25.37	AAAA C
ATOIT	238		VAL	24	48.895	13.447	65.043	1.00 41.52	AAAA C
ATOH	239		VAL	24	19.987	13.963	64.791	1.00 44.40	AAAA O
ATON	240	11	ILE	25	47.855	13.450	64.203	1.00 40.13	AAAA II
ATOM	242	CA	ILE	25	47.908	14.094	62.882	1.00 32.05	AAAA C
ATCH	243	CB	ILE	25	47.113	13.299	61.853	1.00 25.85	AAAA C
ATOH	244		ILE	25	47.027	14.039	60.542	1.00 18.73	AAAA C
ATOH	245		ILE	25	47.677	11.896	61.705	1.00 29.80	AAAA C
ATOH	246		ILE	25	47.169	11.155	60.471	1.00 27.41	AAAA C
ATOH	247	C	ILE	25	47.397		62.941	1.00 32.92	AAAA C
ATOH	248	Ö	ILE	25		15.490		1.00 40.91	AAAA O
ATOH	249		GLU		46.223	15.776	63.213	1.00 36.60	II AAAA
			GLU	26	48.264	16.472	63.042	1.00 29.24	AAAA C
ATOH	251			26	47.832	17.847	63.226	1.00 29.24	AAAA C
ATOH	252		GLU	26	48.875	18.703	63.856	1.00 38.06	AAAA C
ATOH	253		GLU	26	48.490	20.144	54.116	1.00 37.39	AAAA C
ATOI1	254		GLU	26	49.561	20.762	65.013	1.00 37.39	AAAA O
ATOM	255	0E1		26	50.654	20.937	64.489	1.00 49.16	AAAA O
ATOM	256		GLU	26	49.571	21.175	66.182		AAAA C
ATOM	257		GLU	26	47.413	18.376	61.869	1.00 37.79	AAAA O
ATOM	258		GLU	26	48.161	19.069	61.181	1.00 39.68	II AAAA
ATOM	259		GLY	27	46.117	18.104	61.582	1.00 37.28 1.00 31.17	AAAA C
ATOM	261		GLY	27	45.498	18.503	60.320	1.00 33.72	AAAA C
ATOM	262		GLY	27	44.531	17.400	59.893	1.00 33.72	AAAA O
MOTA	263		GLï	27	43.988	16.715	60.775		AAAA II
ATOIL	264		TYR	28	44.304	17.209	58.604	1.00 29.24	AAAA C
ATOH	266		TïR	28	43.318	16.189	58.253	1.00 28.93	
ATOM	267	CB	TYR	28	42.403	16.794	57.217	1.00 31.53	AAAA C
ATOH	268		TYR	28	43.058	17.256	55.962	1.00 31.79	AAAA C
ATOH	269		TTR	28	43.764	16.355	\$5.116	1.00 36.07	AAAA C
HOTA	270		TYR	28	44.361	16.706	53.967	1.00 28.91	AAAA C
ATOM:	271		TYR	28	43.130	18.572	\$5.606	1.00 30.98	AAAA C
ATOM	272		TIR	28	43.769	18.972	54.428	1.00 28.77	AAAA C
ATOH	273	C2	TYR	28	44.367	18.021	53.652	1.00 31.53	AAAA C
ATOH	274		TYR	28	44.971	18.425	52.464	1.00 44.74	AAAA O
ATOM	276	C	TYR	28	13.953	14.946	57.697	1.00 29.23	AAAA C
ATOH	277	0	TYR	28	45.119	15.147	57.383	1.00 35.58	AAAA O
ATOM	278	1!	LEU	29	43.250	13.900	57.445	1.00 26.63	AAAA II
ATOI 1	280	CA	LEU	29	13.764	12.730	56.803	1.00 29.83	AAAA C
ATOM	281	CB	LEU	29	43.830	11.611	57.856	1.00 27.09	AAAA C AAAA C
ATO!!	282	CG	LEU	29	44.212	10.258	57.242		
ATON	293	CDI		29	45.538	10.396	56.469	1.00 35.03	AAAA C
ATOI1	584	CD2		29	44.551	9.203	58.290	1.00 25.05	AAAA C
ATOM	285	C	LEU	29	42.897	12.342	55.616	1.00 33.84	AAAA C AAAA O
ATOH	286	0	LEU	20	41.689	12.165	55.906	1.00 43.29	
HOTA	287		HIS	30	43.389	12.285	54.395		AAAA II
ATOH	289		HIS	30	42.681	11.891	53.197	1.00 34.92	AAAA C
ATOH	290		HIS	30	12.893	12.801	52.027	1.00 32.85	AAAA C
HOTA	291	CG	HIS	30	42.372	14.155	52.046	1.00 25.08	AAAA C
ATOH	292	CD2		30	41.519	14.753	52.907	1.00 40.88	AAAA C
MOTA	293	1101		30	42.717	15.120	51.128	1.00 33.66	AAAA II
ATOI1	225	CEI		30	42.080	16.281	51.444	1.00 31.33	AAAA C
ATOH	3 9 6	HE2		30	41.329	16.093	52.539	1.00 37.27	AAAA II
ATOH	298		HIS	30	43.173	10.538	52.714	1.00 37.68	AAAA C
ATOH	299		HIS	30	44.357	10.388	52.541	1.00 38.70	AAAA O
ATOH	300	li .	ILE	31	42.308	9.542	52.584	1.00 40.02	AAAA II
ATOH	302	CA	ILE	31	42.750	8.271	51.992	1.00 39.47	AAAA C
ATOI-I	303	CB	ILE	31	42.668	7.204	53.063	1.00 37.95	AAAA C
ATOH	304	CG2		31	43.161	5.830	52.651	1.00 23.86	AAAA C
ATOLL	305	CG1		31	43.481	7.555	54.335	1.00 41.66	AAAA C
ATOIL	306	CDI		31	43.170	õ. 5 75	55.473	1.00 28.22	AAAA C
ATON	307	C.	ILE	31	41.884	8.044	50.755	1.00 46.52	FAAA C
ATOH	309	O	ILE	31	10.753	7.589	50.927	1.00 43.56	AAAA O
ATOH	309	!!	LEU	32	12.314	9.489	49.556	1.00 49.89	AAAA II
ATOIT	311	CA	しるい	32	41.484	8.235	48.380	1.00 49.77	AAAA C

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ATC#1	312	ca.	LEU	32	41.127	9.515	4/58 47.693	1.00 47.49	AAAA C
ATOH	313	C.2	LEU	30	12.591	10.688	47.562	1.00 45.33	aaaa c
ATOH	314 315	GB5 1GD	LEU	32 32	41.517 42.371	11.812	16.673	1.00 35.77	AAAA C C AAAA
ATOH	316	ن	LEU	35	42.136	7.296	48.960 47.353	1.00 51.00	AAAA C
ATOH	317	O	LEU	32	43.338	7.370	47.185	1.00 41.36	O ARAA
ATCH ATOH	318 320	CA.	LEU	33 33	41.270	6.722 6.175	46.497 45.127	1.00 50.74	AAAA C
ATOH	321	79	LEU	33	42.091	7.262	14.192	1.00 34.83	AAAA C
ATON	322	C:2	LEU	33	41.233	8.537	44.164	1.00 33.92	AAAA C
ATOH ATOH	354 353		LEU	33 33	41.892 39.823	9.587 8.313	43.298	1.00 37.49	АААА С АААА С
ATOII	325	C	LEU	33	42.618	5.073	45.287	1.00 48.35	алаа с
ATCH	326	0	LEU	33	13.580	5.077	44.538	1.00 54.14	O AAAA U AAAA
ATOH ATOM	327 329	II CA	ILE	34 34	42.543	4.212	46.254	1.00 47.61 1.00 51.70	AAAA C
ATOH	330	C.B	ILE	34	44.101	3.346	47.963	1.00 57.98	AAAA C
ATOH ATOH	331 332	CG2 CG1		34 34	44.538	2.043 4.371	18.600 17.967	1.00 48.98 1.00 46.70	AAAA C AAAA C
ATOH	333	CDI		34	45.561	4.704	19.439	1.00 66.47	7.4AA. C
ATON	334	C	ILE	34	42.829	1.844	16.108	1.00 59.85	AAAA C
ATOH ATOH	335 336	l! O	ILE SER	34 35	41.726	1.531 0.833	46.855 46.013	1.00 60.11 1.00 67.79	AAAA O AAAA N
ATOL	338	CA	SER	35	43.048	-0.511	45.922	1.00 68.80	AAAA C
ATOH	339	C.B	SER	35	42.767	-0.882	44.469	1.00 64.16 1.00 75.76	AAAA C
ATOH ATOH	340 342	OG C	SER SER	35 35	41.731	-1.846 -1.564	44.498	1.00 75.76 1.00 70.73	ДАЛА О ДАДА С
MOTA	343	0	SER	35	44.885	-1.954	45.909	1.00 73.65	AAAA O
ATOH	344	II CA	LYS	36	13.687	-2.017	47.740	1.00 74.75	11 AAAA 11 AAAA C
ATOH: ATOH	316 317	CB CA	LYS	36 36	44.465	-3.014 -3.131	48.421 49.885	1.00 70.05	AAAA C
ATOI1	348	CG	LYS	36	45.147	-3.654	50.775	1.00 78.87	AAAA C
ATOH ATOH	349 350	CD	LYS	36 36	44.693 44.890	-4.575 -6.025	51.887 51.492	1.00 81.39 1.00 89.38	AAAA C AAAA C
ATOI	351	112	LYS	36	44.371	-6.989	52.506	1.00 91.63	M AAAA M
ATOM	355	Ç	LYS	36 36	44.252	-4.362	47.753	1.00 81.41 1.00 78.20	АААА С АААА О
ATON ATON	356 357	0	LYS ALA	36 37	43.145 45.371	-4.772 -5.080	47.451 47.615	1.00 88.27	AAAA 11
ATOH	359	CA	ALA	37	45.361	-6.396	46.986	1.00 90.10	AAAA C
ATON ATON	360 361	C3 C	ALA ALA	37 37	46.700 45.011	-6.655 -7.473	46.327 47.995	1.00 95.49 1.00 92.36	AAAA C AAAA C
ATOH	362	ō	ALA	37	45.668	-7.627	49.012	1.00 92.35	AAAA O
ATOH	363	H CD	SER SER	38	44.031	-8.301	47.622	1.00 94.31 1.00 95.70	AAAA 11 AAAA C
ATOM ATOM	365 366	CA CB	SER	38 38	43.528	-9.352 -10.164	48.484 47.858	1.00 97.44	AAAA C
ATOH	367	OG	SER	38		-11.176	48.814	1.00103.48	AAAA O
ATOH ATOH	369 370	С 0	SER	38 38		-10.263 -10.778	48.821 49.924	1.00 96.87 1.00 98.06	AAAA C AAAA O
A'TOI I	371	11	ASE	3 ô		-10.415	47.852	1.00 97.99	AAAA II
ATON ATON	373 374	CA CB	ASP ASP	3 <i>è</i> 3 <i>è</i>		-11.148 -11.050	47.980 46.652	1.00 99.19	3 AAAA 3 AAAA
ATON	375	CG	ASP	39		-12.387	45.949	0.91101.22	AAAA C
ATON	376	ODL		39		-12.978	45.623	0.01101.42	AAAA O
ATON ATON	377 378	OD2	ASF ASP	39 39		-12.848 -19.564	45.718 49.105	0.01101.41 1.00 99.40	O AAAA D AAAA
ATO!!	379	Ó	ASP	39		-11.056	50.224	1.00 99.15	AAAA O
ATOI:	380 382	CA	TYR TYR	40 40	48.354	-9.479 -8.706	48.818	1.00100.96	N AAAA C AAAA
ATOH	383	<u>55</u>	TYR	40	49.120 49.511	-7.393	49.802 49.130	1.00103.67	AAAA C
ATOH	384	CG	TYR	40	50.159		19.887	1.00107.81	AAAA C
ATOH ATOH	385 386	CDI	TTR	40 40	50.931 51.540	-5.325 -4.280	49.228	1.00109.56 1.00109.67	AAAA C AAAA C
ATOH	387	CD2	TYR	40	50.044	-6.115	51.254	1.00109.29	AAAA C
ATOH ATCH	388 389	CE2	TYR TYR	40 40	50.618 51.372	-5.102 -4.191	51.976 51.276	1.00109.83 1.00110.16	7444 C 7444 C
ATOH	390	СН	TYS	40	51.999		51.893	1.00109.84	AAAA O
ATOH	392	Ç	TYR	40	48.343	-8.529	51.100	1.00 99.10	AAAA C
ATOH ATOH	393 394	0	TYR LYS	40 4)	47.168 49.041	-8.182 -8.653	51.183 52.218	1.00 99.05	AAAA O AAAA II
ATOI-I	396	CA	LYS	41	48.443	-8.549	53.546	1.00100.30	AAAA C
ATOH ATOH	397 398	CB CG	LY3 LY3	41	49.385	-9.160	54.599 54.814	1.00104.42 0.01101.06	AAAA C AAAA C
ATOH	399	CD C3	LYS	41 41		-10.649 -11.107	54.919	0.01101.00	AAAA C
ATOH	400	CE	LYS	41	47.205	-10.880	56.308	0.01 99.86	аааа с
ATOH ATOH	401 405	e C	LYS	41 41	47.982 48.035	-11.728 -7.136	57.328 53.947	0.01 99.62 1.00 98.99	AAAA II AAAA C
ATOH	106	ō	LYS	41	47.615	-6.371	53.057	1.00103.33	AAAA O
ATOH	407	!!	SER	42	48.198	-6.754	55.221	1.00 91.75	AAAA II
ATOH ATOH	409	CA CB	SER SER	42 42	47.825 46.385	-5.412 -5.520	55.604 56.147	1.00 85.06 1.00 95.33	AAAA C
HOTA	411	C/G	SER	15	46.547	~6.140	\$7.426	1.00104.63	O AAAA
ATOH: ATOH	413	0	ser ser	42 42	48.628 49.326	-4.715 -5.259	56.687 57.538	1.00 80.78	AAAA C AAAA O
ATOI1	415	11	TYR	43	48.495	-3.395	56.676	1.00 73.03	AAAA II
ATOH	417	CA	TYR	43	49.069		\$7.635	1.00 67.25	AAAA C

							3/30		
ATCH	419	(7)	TYR	4.3	49.026	-1.112	56.965	1.00 65.37	AAAA :
ATON	419	୯୯	TYE	د ڼ	49.953	-1.021	55.727	1.00 63.92	AAAA C
ATCH	420	001	TTR	13	50.931	-1.935	55.406	1.00 63.87	AAAA C
ATCH	421	CEL	TYR	13	51.598	-1.781	54.274	1.00 66.09	AAAA C
HOTA	422	CDC	TYR	13	49.770	0.050	54.870	1.00 63.30	AAAA C
ATOH	423	CES	TYR	13	50.536	0.214	53.728	1.00 67.62	AAAA C
ATOH	424	CC	TTR	43	51.508	-0.712	53.432	1.00 66.94	AAAA C
	125	OH.	TTR	43	52.262		52.305	1.00 65.23	AAAA O
ATOH						-0.563			
ATCI1	427	C	TYR	∔ 3	18.518	-2.381	58,925	1.00 64.98	AAAA C
ATOH	428	O	TIR	43	47.088	-3.851	59.030	1.00 62.90	AAAA O
ATOH	429	11	ARG	44	48.782	-1.567	59.825	1.00 57.88	AAAA II
ATON	431	CA	ARG	11	48.019	-1.285	61.039	1.00 56.45	AAAA C
ATOH	432	св	ARG	4.4	47.842	-2.611	61.760	1.00 46.51	AAAA C
ATCH	433	C:3	ARG	4.4	47.915	-2.375	63.244	1.00 54.66	дала с
	434	CD	ARG	4.4				1.00 58.54	AAAA C
INTA					46.885	-3.327	63.986		
АТОН	435	HE.	AR:3	11	47.090	-2.927	65.403	1.00 68.56	II AAAA II
ATCH	437	CO	ARG	4.4	46.464	-3.536	66.395	1.90 64.82	AAAA C
ATOH	÷38	11111	A 2 ()	44	45.644	-4.529	66.132	1.00 61.53	II AAAA
			ARG	44				1.00 66.03	AAAA II
HOTA	441				46.674	-3.139	67.628		
ATOL:	111	C	ARG	44	48.911	-ŭ.295	61.845	1.00 55.50	AAAA C
ATOM	445	Ú	ARG	44	49.916	-0.552	62.320	1.00 58.43	AAAA O
LIOTA	446	11	PHE	45	18.276	0.866	62.139	1.90 51.13	H AAAA
ATOH	1 + 8	CA	PHE	45	48.865	1.944	62.863	1.00 45.94	AAAA C
ATOH	110	CB	PHE	45	48.774	3.249	61.978	1.00 35.89	AAAA C
ATOH	450	CG	PHE	45	49.106	2.937	60.554	1.00 30.29	AAAA C
				45				1.00 45.72	AAAA C
ATOH	451	CDI			50.373	3.051	59.998		
ATOH	452	CD2	PHE	45	48.127	2.428	59.728	1.90 35.95	AAAA C
ATOH	453	CEI	PHE	45	50.653	2.715	58.672	1.00 47.76	AAAA C
	454	CEC	PHE	45				1.00 39.92	AAAA C
ATOH					48.358	2.096	58.406		
ATCH:	455	CC	PHE	45	49.610	2.244	57.967	1.00 46.44	AAAA C
ATO: I	456		FHE	45	48.191	2.123	64.203	1.00 41.65	AAAA C
ATOH	157	O.	PHE	45	47.708	3.223	64.475	1.00 40.99	AAAA O
ATOH	458	11	PRO	46	18.151	1.338	65.212	1.00 43.20	AAAA II
ATOH	120	CD	PRO	46	49.300	0.097	65.132	1.00 47.74	аала с
ATC: 1	460	CA	PRO	46	48.032	1.530	66.560	1.00 43.34	AAAA C
		CB.		16				1.00 44.92	AAAA C
ATOH	461		PRO		48.514	0.319	67.380		
ATOH	462	CG	PRO	4.5	19.404	-0.464	66.514	1.00 45.48	AAAA C
I-fOTA	463	C	PRO	46	48.553	2.768	67.233	1.00 41.30	AAAA C
ATOLL	464	ō	PRO	16	48.329	2.830	68.443	1.00 44.57	AAAA O
ATOI I	465	; ;	LYS	47	49.450	3.533	66.676	1.00 39.33	II AAAA II
ATOH	457	CA	LYS	47	49.991	4.679	67.362	1.00 38.10	аааа с
ATOI1	468	CB	LYS	47	51.378	4.981	66.852	1.00 48.07	AAAA C
									AAAA C
HOTA	469	CG	LYS	47	52.032	3.995	65.902	1.00 67.95	
ATOI1	470	CĐ	LTS	47	53.563	3.976	65.891	1.00 61.33	аааа с
ATOM	471	CE	Lis	47	54.115	4.648	67.147	1.00 72.19	AAAA C
								1.00 79.29	II AAAA
ATOH	472	H2	LYS	47	54.024	6.132	66.874		
ATOH	476	C	LYS	47	49.014	5.848	67.195	1.00 39.76	аааа с
ATOI1	477	Ō.	LïS	17	49.189	6.827	67.952	1.00 35.45	aaaa o
ATO: 1	178	Li.	LEU	18	48.300	5.886	66.053	1.00 36.45	AAAA II
									AAAA C
ATOH	150	CA	LEU	4.9	47.370	7.004	65.800	1.00 40.40	
ATO!:	491	CB	LEU	13	46.823	6.919	64.389	1.00 28.59	AAAA C
HOTA	492	CG	LEU	4.8	45.947	7.967	63.787	1.00 31.04	AAAA C
								1,00 36.86	AAAA C
TOIT	183	CDI		48	46.637	9.310	63.878		
ATOH	161	CDZ	LEU	49	45.591	7.738	62.294	1.00 34.49	FAAA C
ATOI:	485	\mathcal{C}	LEU	18	46.186	7.022	66.807	1.00 42.21	AAAA C
ATOH!	486	C	LEO	48	45.271	6.187	66.863	1.00 36.48	AAAA O
ATOH	187	1:	THR	4.9	46.138	8.041	67.673	1.00 38.95	AAAA II
11OTA	489	ÇΛ	THR	49	45.045	8.151	68.574	1.00 37.96	AAAA C
ATOH!	490	CB	THR	19	45.548	8.207	70.034	1.00 48.69	AAAA C
ATOH	191		THR	10	46.396	9.340	70.225	1.00 35.90	AAAA O
ATO!!	163	CG2		1 ò	46.230	6.957	70.529	1.00 31.99	AAAA C
ATOH	494	c	THR	49	44.230	9.425	68.321	1.00 39.48	aaaa c
ATOLL	495	o	THR	4.9	43.111	9.451	68.837	1.00 34.49	AAAA O
ATOH	196	11	YAL	50			67.605	1.00 37.32	II AAAA
					44.735	10.415			
ATOR	458	CA	∵AL	50	43 995	II.664	67.418	1.00 38.72	AAAA C
HOTA	429	CB	VAL	50	44.293	12.708	68.503	1.00 37.24	AAAA C
ATOH.	500	C/31		50		14.066	68.208	1.00 29.96	AAAA C
					43.630				
ATOH	201	CG2		50	43.984	12.311	69.913	1.00 32.52	AAAA C
ATOH	502	Ç	VAL	50	44.271	12.305	66.048	1.00 37.03	AAAA C
ATOH	503	Ö	VAL	50	15.195	11.863	65.431	1.00 37.96	AAAA O
ATOH	504	13	ILE	51	43.319	12.939	65.415	1.00 37.49	AAAA II
ATOH	506	CA	ILE	51	43.301	13.575	64.133	1.00 32.48	aaaa c
ATO(1	507	CB	ILE	51	42.346	12.864	63.152	1.00 34.51	аааа с
								1.00 32.31	AAAA C
LIOTA	508	CGC		51	41.995	13.802	61.978		
ATOH	509	CG1	ILE	51	43.026	11.611	62.671	1.00 30.78	AAAA C
ATO!!	510	CD1	ILE	51	42.358	10.559	61.815	1.00 19.69	AAAA C
	511		ILE	51			64.431	1.00 34.14	AAAA C
ATON		Ç			42.659	14.939			
ATOH	512	O	ILE	51	41.546	14.830	64.923	1.00 29.08	AAAA O
ATOI!	513	11	THR	52	43.342	16.058	64.239	1.00 33.93	AAAA II
ATOH	515	CA	THR	52	42.806	17.305	64.719	1.00 33.83	AAAA C
									AAAA C
ATOH	516	CB	THR	52	43.961	18.338	61.939	1.00 35.39	
ATOH	517	001	THR	52	44.726	18.567	63.791	1.00 41.28	C AAAA
ATO!!	519		THR	5.3	44.775	17.926	66.134	1.00 02.01	AAAA c
	520	C	THR				63.863	1.00 39.02	AAAA C
ATON				53	41.741	17.951			
ATOH	521	0	THR	\$.3	41.200	19.030	64.243	1.00 38.88	AAAA O

							6/58		
ATOH	522		SLU	53	41.524	17.477	62.639	1.00 36.93	AAAA C
ATOH ATOH	524 525		SLU SLU	53 53	40.434 41.064	17.953 18.512	61.795 60.483	1.00 38.38 1.00 29.76	AAAA C
ATOH	526		SLU	53	42.061	19.552	60.834	1.00 30.48	AAAA C
ATOH	527		3LU	53	42.517	20.396	59.697 58.556	1.00 40.82 1.00 57.56	AAAA C AAAA O
ATOH	528 529	0E1 0	الدان الدان	53 53	42.638 42.799	19.908	59.931	1.00 35.74	C AAAA
ATOR	530	¢ 0	3LU	5.3	39.506	15.799	61.388	1.00 39.19	aaaa c aaaa c
ATOH ATOH	531 532		SLU TYR	53 54	38.922 39.639	16.311 16.353	62.386 60.102	1.00 38.95 1.00 30.60	II AAAA
ATOH	534		TTR	54	38.666	15.342	59.713	1.00 35.96	AAAA C
TOTA	535 536		TTR TTR	21 21	37.654 38.247	15.802 16.476	58.636 57.388	1.00 30.71 1.00 21.18	AAAA C AAAA C
ATOH ATOH	537		TYR	54	38.487	15.733	56.305	1.00 20.22	AAAA C
ATOH	538		TTR	54 .	38.980	16.243	55.086	1.00 21.04 1.00 23.97	AAAA C AAAA C
ATCH ATCH	240 239		TYR TYR	24 24	38.577 39.049	17.844	57.307 56.124	1.00 24.69	AAAA C
ATOH	541	C2 1	TTR	54	39.263	17.569	55.032	1.00 26.72	. AAAA C AAAA O
ATOH ATOH	542 544		TYR TYR	54 54	39.763 39.405	18.047 14.115	53.847 59.142	1.00 37.55 1.00 33.87	AAAA C
ATOH	545		TTR	54	40.513	14.360	58.678	1.00 30.40	AAAA O
MOTA	546 548		LEU LEU	55 55	38.683 39.111	13.021	28.424 29.004	1.00 23.24	AAAA 11 AAAA C
ATOH	549		LEU	55	39.011	10.663	59.510	1.00 14.78	AAAA C
ATOH	550		LEU	55	39.349	9.314	58.818 58.040	1.00 26.98 1.00 26.66	AAAA C AAAA C
HOTA	551 552	CD1 1		55 55	39.496 40.668	9.477 8.093	59.705	1.00 14.45	AAAA C
ATOH	553	C i	LEU	55	38.201	11.548	57.238	1.00 37.43	D AAAA O AAAA
ATOH ATOH	554 555		LEU LEU	55 56	36.995 38.700	11.632	57.427 56.035	1.00 39.55	AAAA II
ATOH	557	CA !	LEU	56	37.955	11.201	54.799	1.00 36.98	AAAA C
ATON	558 559		LEU LEU	56 56	37.998 37.984	12.446 12.514	53.949 52.416	1.00 33.29	AAAA C AAAA C
ATOH ATOH	560	CD1		56	37.076	11.460	51.921	1.00 47.95	AAAA C
ATOH	561	CD2		56	37.286	13.807	51.985	1.00 33.47	AAAA C AAAA C
ATOH ATOH	562 563		LEU LEU	56 56	38.595 39.714	10.047	54.008 53.547	1.00 44.38	AAAA O
HOTA	564	11 :	LEU	57	37.846	9.008	53.800	1.00 36.68	AAAA H
ATOH ATOH	566 567		LEU LEU	57 57	38.133 37.944	7.832 6.588	53.034 53.916	1.00 41.53 1.00 37.00	АААА С АААА С
ATOH	568		LEU	57	39.064	6.534	55.026	1.00 36.13	AAAA C
ATOH	569	CD1		57 57	38.513	6.890 5.162	56.417 55.039	1.00 33.26 1.00 24.11	дааа с аааа с
ATOH ATOH	570 571	CD2	LEU	57 57	39.630 37.203	7.825	51.838	1.00 46.03	AAAA C
ATO14	572	0	LEU	57	35.985	7.993	51.969	1.00 44.78 1.00 47.07	O AAAA N AAAA
ATOM ATOM	573 575		PHE PHE	58 58	37.792 36.895	7.898 8.002	50.642 49.467	1.00 47.07	AAAA C
ATOH:	576	CB	PHE	58	36.704	5.448	49.102	1.00 46.67	AAAA C AAAA C
ATOH HOTA	577 578	CG CD1	PHE	58 58	36.447 37.413	9.815 9.706	47.692 46.697	1.00 54.66 1.00 55.19	AAAA C
ATOH	579	CD2	FHE	58	35.200	10.301	47.326	1.00 53.86	AAAA C
ATO!	580		PHE PHE	59 58	37.124 34.885	10.063 10.655	45.396 46.011	1.00 50.36 1.00 41.84	AAAA C AAAA C
ATOH ATOH	581 582		PHE	58	35.877	10.521	45.037	1.00 46.50	AAAA C
ATON:	583		PHE	58	37.351	7.052	18.379	1.00 49.71 1.00 52.16	аааа с аала о
ATOH ATOH	584 585		PHE ARG	58 59	38.487 35.471	7.073 6.118	47.934 47.944	1.00 44.26	AAAA II.
ATOH	587		ARG	59	36.753	5.281	46.815	1.00 40.80 1.00 23.79	AAAA C AAAA C
ATOH ATOH	588 589		ARG ARG	5 <u>9</u> 5 9	36.911 35.869	5.993 7.020	45.427 45.121	1.00 46.53	AAAA C
ATOM:	590	CD	ARG	5 ₫	35.921	7.562	43.706	1.00 37.64	AAAA C AAAA 11
ATOH ATOH	591 593		ARG ARG	50 59	35.822 34.950	6.422 5.832	42.806 42.036	1.00 49.23	AAAA C
ATOH	594	HHI	ARG	59	33.702	6.277	41.931	1.00 47.00	II AAAA
ATOH ATOH	597 600	ин2 С	ARG ARG	59 59	35.237 38.037	4.729	41.327	1.00 42.58 1.00 42.25	AAAA H AAAA C
ATOH	601		ARG	59	38.981	4.513	46.232	1.00 44.11	AAAA O
ATOH	602		VAL	60 60	38.001	3.625	48.013 48.341	1.00 40.84	И АААЛ О АААА
ATOH ATOH	604 605		VAL VAL	60 60	39.101 39.624	2.743 3.066	49.751	1.90 40.12	AAAA C
ATOH	606	CG1	VAL	60	40.407	1.972	50.296	1.00 35.05 1.00 28.86	ААЛА С А АЛА С
ATOH ATOH	607 608	0G2 0	VAL	60 60	40.425	4.352	49.893 48.368	1.00 43.56	AAAA C
HOTA	509	0	VAL	60	37.535	1.224	49.072	1.00 47.66	AAAA O
ATOU	610	l·l C⊅	ALA ALA	61 61	39.094 38.617	0.371 -0.992	47.659	1.00 41.92	AAAA C
ATOH ATOH	612 613	CB CB	ALA	61 61	38.302	-1.483	46.364	1.00 52.40	AAAA C
ATOM	614	C	ALA	61	39.613	-1.934	48.386	1.00 43.08 1.00 50.59	AAAA C AAAA O
ATOH ATOH	615 616	0	ALA GLT	61 62	40.757 39.200	-1.602 -3.105	48.670 48.849	1.00 45.71	AAAA H
ATOH	518	CA	GLT	62	40.136	-4.079	49.385	1.00 45.32	AAAA C
ATOH	619	0	GLY GLY	60 60	40.262	-3.900 -4.835	50.872 51.604	1.00 48.04 1.00 52.34	2444 C 2444 O
ATOH ATOH	620 621	9	LEU	62 63	10.587 39.985	-2.734	51.383	1.00 46.90	II AAAA II
ATO!1	623	CA	LEU	43	40.003	-2.443	50.805	1.00 49.11	AAAA C

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ATON	624	CB LEI	63	40.274	-0.953	53.027	1.06 41.41	AAAA C
ATOH	625 626	CG LEU CD1 LEU		40.265	-0.423	54.443	1.00 53.41	AAAA C AAAA C
ATOH ATOH	627	CD2 LEU		41.172 40.637	-1.164 1.047	55,416 54,246	1.00 50.51	AAAA C
ATCH	628	C LEU		38.643	-2.881	53.323	1.00 54.20	C AAAA O AAAA
ATOH ATOH	629 630	O LEU		37.587 38.658	-2.430 -3.862	52.837 54.190	1.00 57.73	AAAA II
ATOH1	632	CA GLU		37.462	-4.448	54.749	1.00 56.96	C AAAA C AAAA
ATOH ATOH	633 634	CB GLU		37.689 37.832	-5.956 -6.484	54.734 53.293	1.00 65.33	AAAA C
ATOH	535	CD GLU		37.104	-7.940	53.128	1.00 78.10	аааа с лааа о
ATON ATON	636 637	OEI GLU OEI GLU		37.424 37.036	-8.693 -8.320	54.132 51.978	1.00 63.93	AAAA O
ATOH	638	C GLU	64	37.096	-4.007	56.163	1.00 57.12	AAAA C
ATON ATON	639 640	O GLU		35.986 37.766	-1.332 -3.012	56.600 56.761	1.00 59.82	AAAA 0 AAAA !!
ATOH	642	CA SER	65	37.539	-2.523	58.960	1.00 47.19	AAAA C
ATOH ATOH	644 643	OG SER		37.743 37.501	-3.596 -2.971	59.139 60.429	1.00 49.24	AAAA C AAAA O
ATOH	646	C SER	65	38.516	-1.405	58.432	1.00 48.35	AAAA C
ATOH ATOH	648 647	O SER		39.716 38.054	-1.692 -0.289	58.374 58.984	1.00 52.75	AAAA C AAAA I
ATOH	650	CA LEU	66	38.956	0.758	59.405	1.00 41.94	AAAA C
ATOH ATOH	651 652	CB LEU		38.247 37.283	2.083	59.498 58.402	1.00 25.25	AAAA C AAAA C
ATOH	653	CD1 LEU	66	36.974	3.951	58.512	1.00 30.81	AAAA C
ATON ATON	654 655	CD2 LEU		37.767 39.646	2.200 0.462	56.994 60.734	1.00 34.34	AAAA C AAAA C
ATOIL	656	O LEU	66	40.762	0.947	60.927	1.00 41.05	AAAA C
HOTA	657 659	II GLY		39.000 39.773	-0.346 -0.672	61.593 62.799	1.00 45.21	AAAA H AAAA C
ATOH	660	C GLY	67	40.998	-1.508	62.445	1.00 44.51	AAAA C
HOTA HOTA	661 662	O GLY		41.855 41.013	-1.724 -2.189	63.287 61.309	1.00 45.42	аааа о аааа и
ATON	664	CA ASE		42.194	-2.834	60.738	1.00 50.99	aaaa c
ATOH	665 666	CB ASE		42.012	-3.417	59.361 59.311	1.00 39.43	AAAA C AAAA C
ATON ATON	657	OD1 ASE		41.205 40.912	-4.678 -5.341	60.320	1.00 44.69	AAAA O
ATOH	668	OD2 ASE		40.819	-5.065	58.187	1.00 47.23	AAAA O AAAA C
ATOH ATOH	669 670	C ASE		43.363 44.436	-1.837 -2.269	60.596 60.903	1.00 44.84	AAAA O
ATOM	671	N LEU	69	43.145	-0.609	60.247	1.00 42.49	II AAAA II
ATOH ATCH	673 674	CA LEU		44.175 43.920	0.352 1.393	60.048 58.945	1.00 45.80	AAAA C AAAA C
ATOH:	675	CG LEU	69	43.902	0.882	57.494	1.00 54.25	AAAA C
ATOM ATOM	676 677	CD1 LEU		43.541 45.211	2.037 0.200	56.565 57.113	1.00 47.26	AAAA C AAAA C
ATOI1	678	C LEU	69	44.347	1.107	61.350	1.00 49.50	AAAA C
ATOH ATOH	679 680	O LEC		45.470 43.296	1.210	61.851 61.869	1.00 54.51	0 AAAA 11 AAAA
ATOH	682	CA PHE	7.0	43.423	2.564	63.046	1.00 39.67	AAAA C
ATOH ATOH	684 683	CB PHE		42.987 43.465	3.973 4.501	62.700 61.390	1.00 26.08	D AAAA D AAAA
ATON	685	CD1 PHE	70	42.532	4.748	60.384	1.00 47.41	лаал с
ATOH ATOH	686 687	CD2 PHE		44.815 42.945	4.767 5.263	61.130 59.159	1.00 48.77 1.00 56.16	AAAA C AAAA C
ATO!·I	688	CE2 PHE	70	45.229	5.256	59.895	1.00 47.24	2 AAAA
ATOH ATOH	689 689	CC PHE		44.293 42.655	5.506 1.999	58.896 64.219	1.00 49.54	AAAA C AAAA C
ATOH	691	O PHE	7.0	41.874	2.734	64.939	1.00 35.74	AAAA O
ATOH ATOH	692 693	OD FRO		43.0\$3 44.269	0.852 0.058	64.768 64.411	1.00 39.19	II AAAA C AAAA
ATON	694	CA PRO	71	42.444	0.237	65.899	1.00 35.30	AAAA C
ATOH ATOH	695 696	CB PRO		13,308 44.669	-0.983 -0.564	66.246 65.717	1.00 38.03	AAAA C AAAA C
ATOH	697	C PRO		42.453	1.089	67.126	1.00 33.72	AAAA C
HOTA	698	O PRO		42.005	0.630	68.159 67.231	1.00 39.32	O AAAA II AAAA
ATOH ATOH	699 701	II ASI CA ASI	: 72	43.058 43.204	2.220	68.401	1.00 32.60	AAAA C
ATOH	_05	CB ASI		44.637	2.916	68.962 69.761	1.00 35.89	C AAAA C AAAA
ATOH ATOH	703 704	OG ASI		44.735	1.638	70.979	1.00 64.42	AAAA O
ATOR	705	HD2 ASI		44.880	0.475	69.169	1.00 63.17	AAAA C
ATOH ATOH	708 709	C ASI		42.875 43.099	4.477 5.201	68.135 69.104	1.00 36.53	AAAA O
ATOH	710	ti LEt	73	42.309	4.809	66.978	1.00 27.62	II AAAA II
ATOH ATOH	712 713	CA LEG		41.476	6.207 6.373	66.730 65.292	1.00 34.07	C AAAA C AAAA
ATO! 1	714	CG LEG	73	40.819	7.713	64.882	1.00 29.33	AAAA C
ATOH ATOH	715 716	CD1 LEG		41.918	8.721 7.518	64.963 63.478	1.00 31.86	AAAA C AAAA C
ATOH	717	C LEU	73	40.202	6.569	67.817	1.00 32.14	aaaa c
ATCH	718 719	O LES		40.073	5.737	68.001 68.592	1.00 35.00	AAAA O AAAA H
ATOH ATOH	721	CA THE		41.081 40.150	7.585 7.826	69,683	1.00 34.86	AAAA C

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ATOH	722	CB THR	74	41.020	7.744	70.952	1.00 46.09	AAAA C
ATCH ATCH	723 725	OG1 THR	74 74	41.729 40.262	6.485 7.831	70.880 72.253	1.00 46.30 1.00 39.45	AAAA O AAAA C
ATOH	726	C THR	74	39.424	9.155	69.602	1.00 35.48	AAAA C
ATOH ATOH	727 728	O THR	74 75	38.270	9.322	70.077	1.00 35.32	O AAAA 11 AAAA
ATOM	730	CA VAL	75	40.047 39.351	10.199	69.073 68.992	1.00 29.80 1.00 34.91	AAAA C
ATOH	731	CB VAL	75 75	39.856	12.445	59.955	1.00 26.03	AAAA C
ATCH ATCH	732 733	CG1 VAL	75	39.173 39.675	13.801	69.934 71.366	1.00 24.51 1.00 19.87	AAAA C AAAA C
ATOH	734	C VAL	75 75	39.613	12.045	67.494	1.00 37.57	AAAA C
HOTA HOTA	735 736	O VAL N ILE	75 76	40.724 38.600	11.808 12.555	67.022 66.796	1.00 35.99 1.00 35.91	AAAA 0 AAAA 11
ATOH:	738	CA ILE	76	38.695	13.340	65.592	1.00 31.48	AAAA C
aton Aton	739 739	CB ILE	76 76	37.931 37.856	12.769 13.630	64.492 63.209	1.00 29.60 1.00 19.54	D AAAA D AAAA
ATOH	741	CG1 ILE	76	38.222	11.314	64.277	1.00 28.52	AAAA C
ATOH ATOH	742 743	CD1 ILE	76 76	37.149 38.157	10.556 14.718	63.479 66.000	1.00 28.85 1.00 33.84	AAAA C AAAA C
ATON	744	O ILE	76	36.997	14.777	66.274	1.00 38.84	AAAA O
ATOH ATOH	745 747	II ARG CA ARG	7.7 7.7	38.906 38.605	15.733 16.901	66.230 67.021	1.00 30.32 1.00 30.82	аааа н аааа с
ATOH	748	CB ARG	77	39.961	17.475	67.461	1.00 25.62	AAAA C
ATOH ATOH	749 750	CG ARG CD ARG	77 77	39.993 41.290	18.836 18.957	68.058 68.908	1.00 52.42 1.00 49.10	AAAA C AAAA C
ATOH	751	NE ARG	77	41.411	17.817	69.773	1.00 39.23	AAAA II
ATOH ATOH	753 754	CS ARG HH1 ARG	77 77	40.977 40.440	18.016 19.104	71.064 71.610	1.00 48.79 1.00 30.34	AAAA C AAAA H
ATOH	787	NH2 ARG	77	41.061	17.012	71.941	1,00 40.38	AAAA !!
ATOM HOTA	760 761	C ARG O ARG	77 77	37.643 36.944	17.733 18.637	66.225 66.664	1.00 31.75 1.00 31.40	АААА С АААА О
ATON	762	N GLY	78	37.688	17.661	64.884	1.00 32.87	II AAAA II
ATOH ATOH	764 765	CA GLY C GLY	78 78	36.982 37.199	18.409 19.880	63.950 64.063	1.00 16.23 1.00 31.58	AAAA C AAAA C
ATOH	766	O GLY	78	36.363	20.775	63.674	1.00 34.03	AAAA O
ATOM ATOM	767 769	II TRP CA TRP	7 <u>9</u> 79	38.439 38.757	20.321	64.304 64.337	1.00 31.21 1.00 30.80	АААА И АААА С
ATOH	770	CB TRP	79	40.177	21.943	64.845	1.00 39.07	AAAA C
ATOH ATOH	771 772	CG TRP	7 <u>9</u> 79	40.626	23.343	65.164	1.00 36.64 1.00 28.52	AAAA C AAAA C
ATON	773	CE2 TRP	79	41.691 41.826	24.001 25.288	64.433 65.002	1.00 36.49	AAAA C
HOTA	774 775	CE3 TRP	79 70	42.473	23.625	63.370	1.00 37.96	AAAA C AAAA C
ATOH ATOH	775	CD1 TRE	79 79	40.199 40.917	24.235 25.413	66.113 66.054	1.00 29.59 1.00 27.67	AAAA II
ATOH	778	CC2 TRP	79 70	42.770	26.213	64.543	1.00 31.83	AAAA C
HOTA HOTA	779 780	C23 TRP CH2 TRP	79 79	43.389 43.525	24.548 25.794	62.876 63.470	1.00 46.14 1.00 35.31	AAAA C AAAA C
ATOH	781	C TRP	79	38.606	22.418	62.986	1.00 28.75	AAAA C
ATOH ATOH	782 783	O TRP	79 80	38.585 38.659	23.624 21.684	62.961 61.895	1.00 23.61 1.00 31.84	O AAAA H AAAA
ATOH	785	CA LYS	80	38.305	22.153	60.573	1.00 32.78	AAAA C
ATOH ATOH	786 787	CB LYS	80 80	39.838 39.453	22.498 23.911	59.689 59.470	1.00 41.17 1.00 34.68	AAAA C AAAA C
ATOH	798	CD LYS	80	41.025	24.350	60.306	1.00 44.77	AAAA C
ATOH ATOH	799 790	CE LYS NS LYS	80 80	41.276 42.530	25.811 25.752	59.898 59.092	1.00 50.41 1.00 67.26	AAAA C AAAA J
HOTA	791	C LYS	80	37.585	20.960	59.917	1.00 34.50	AAAA C
ATON ATON	792 793	O LYS H LEU	80 81	37.950 36.477	19.843	60.237 59.207	1.00 37.62 1.00 31.77	0 AAAA 11 AAAA
ATO:1	795	CA LEU	81	35.742	20.157	58.600	1.00 31.02	аааа с
ATOH ATOH	796 797	CB LEU CG LEU	81 81	34.290 34.115	20.315	59.092 60.632	1.00 31.20 1.00 36.97	AAAA C AAAA C
ATOM	798	CD1 LEU	81	32.832	21.080	60.954	1.00 27.98	AAAA C
ATOH ATOH	799 800	CD2 LEU C LEU	81 81	34.089 35.733	18.955 20.023	61.297 57.104	1.00 28.77 1.00 29.86	AAAA C AAAA C
ATOH	801	O LEU	91	36.082	20.023	56.368	1.00 29.34	AAAA O
HOTA HOTA	802 804	II PHE CA PHE	82 82	35.430 35.176	18.813 18.653	56.594 55.182	1.00 27.78 1.00 28.68	AAAA C
ATOH	805	CB THE	82	35.513	17.226	54.795	1.00 32.78	AAAA C
ATOH	906 907	CG FHE	92	35.348	16.901	53.357 52.447	1.00 30.49	АДДА С АДДА С
ATOH ATOH	808	CD1 PHE CD2 PHE	82 82	36.378 34.142	17.130 16.361	52.914	1.00 30.93	AAAA C
ATOH	809 810	CEL PHE	82	36.217	16.769	51.104	1.00 43.27	AAAA C AAAA C
ATO!! ATO!!	910 911	CE2 PHE CU PHE	82 82	33.963 35.005	16.061 16.238	51.538 50.672	1.00 37.73	AAAA C
ATON	812	C PHE	82	33.670	18.911	54.993	1.00 30.06	AAAA C
ATOH ATOH	913 814	O PHE	82 83	32.830 33.301	18.045	55.278 54.770	1.00 27.36 1.00 31.68	O AAAA II AAAA
ATOI1	815	CA TYR	83	31.911	20.605	54.633	1.00 40.76	аааа с
ATOH ATOH	816 817	C TYR O TYR	83 83	31.043 30.075	19.977	55.726 55.487	1.00 44.00 1.00 50.47	AAAA C AAAA O
ATON	818	CB TYR	6.3	31.359	20.199	53.269	1.00 31.55	AAAA C
ATOH ATOH	819 920	CG TYR CD1 TYR	93 83	32.196 33.254	20.742 19.982	52.117 51.609	0.01 20.00 0.01 20.00	AAAA C AAAA C
ATOH	821	CD2 TYR	83	31.906	21.998	51.575	0.01 20.00	AAAA C

9/58 34.027 AAAA C 50.556 0.01 20.00 CEL TYR 93 20.480 ATOH 922 22.496 21.737 AAAA C ē 3 32.679 6.01 20.00 ATO: 1 923 CEC TYR 50.521 AAAA 33.740 0.01 20.00 ATC: 1 824 TYR 63 50.012 AAAA 34.492 20.00 ATOH: 925 OH TTR 83 22.222 18.989 0.011.00 40.91 AAAA 56.924 ATOH 826 :1 ASII 84 31.043 20.461 ASH 30.250 1.00 36.54 AAAA ATOH 827 CA **B4** 20.057 58.056 628 CB ASII 28.763 20.046 57.700 1.00 47.84 AAAA ATOH AAAA ATOH 829 CG ASH 84 28.274 21.164 56.797 1.00 60.75 1.00 45.55 ATOH 830 OD1 ASH 26.319 22.343 57.119 AAAA ATOH 831 HD2 ASI: 84 27.839 20.876 55.552 1.00 65.98 AAAA 11 0.686 وَ 1.00 36.33 AAAA ATCH 332 ASII 18.679 58.556 84 30.137 18.206 59.580 1.00 38.24 AAA 0 ATCH 933 AS!I AAAA II 85 31.455 17.900 57.800 1.00 32.78 ATON! 934 TTR 1.00 35.45 AAAA ATO: CA TYR 85 31.517 16.504 58.222 C 836 AAAA 1.00 35.54 HOTA 337 €B TYR 95 31.473 15.579 57.000 AAAA 1.00 41.35 ATOH 838 CG TTR 85 30.078 15.733 56.453 AAAA 1.00 38,22 55.199 HOTA 939 CD1 TYR 85 29.868 16.291 54.704 40.83 AAAA 1.00 ATOH 840 CE1 TYR 8.5 28.611 16.445 57.200 56.705 1.00 47.42 AAAA ATOH 841 CD2 TYR 95 28.954 15.371 27.661 1.00 AAAA ATO: I 842 CE2 TYR 25 15.533 1.00 46.06 AAAA 16.072 55.445 HOTA 843 CO TYR 85 27.497 26.258 1.00 46.05 AAAA O TYR 85 16.315 54.886 844 ОН ATOH 1.00 32.08 AAAA846 TTR 85 32.977 16.367 58.891 ATOH 16.977 ATC:-917 TTR 33.943 58.495 1.00 37.44 AAAA O AAAA II 948 ti ALA 86 33.027 15.691 59.979 1.00 30.21 ATOI1 34.257 60.670 1.00 34.10 ATON 850 CA ALA 86 15.325 33.999 15.370 62.157 1.00 25.48 AAAA HOTA 851 CB ALA 86 AAAA C 34.729 13.962 60.216 1.00 32.67 ATO14 852 ALA 86 AAAA 853 0 ALA 36 35.795 13.481 60.577 1.00 35.10 ATOH 1.00 28.56 AAAA II 59.597 ATOH 854 LEU 97 33.832 13.173 29.26 AAAA 856 CA LEU 87 34.188 11.805 59.323 1.00 11OTA AAAA C 1.00 13.64 257 CЭ LEU 87 33.798 10.860 60.471 ATOI: 1.00 25.77 1.00 27.21 AAAA ATO! 1 858 CG LEU 87 33.801 9.363 60.188 AAAA HOTA 859 CD1 LEU 87 35.140 9.915 59.571 AAAA 1.00 23.52 ATOH 860 CD2 LEU 87 33.637 8.432 61.393 ههه 1.00 35.60 ATO!! 861 LEU 87 33.530 11.429 58.021 AAAA 1.00 38.97 87 58,001 ATO!! 862 0 LEU 32.320 11.421 AAAA II VAL 88 34.174 56.875 1.00 37.86 ATOH 863 11 11.300 AAAA C 55,628 1.00 33.32 CA VAI. 11.032 ATOH 865 88 33.438 1.00 22.38 AAAA C VAL 12.085 ATOH 866 CB 88 33.666 54.553 53.261 1.00 19.24 AAAA C CGI VAI. 88 32.974 11.675 ATOH 867 AAAA C VAL 13.402 55.042 1.00 13.27 33,165 868 CG2 88 **ATOH** 1.00 31.79 VAL 88 33.898 9.684 55.114 869 HOTA 55.117 1.00 33.57 AAAA O 870 VAL 88 35.069 9.407 ATOI1 SAAA U 8.728 54.822 1.00 31.08 871 ILE 33.078 ATO! SAAA C 7.433 54.280 1.00 30.45 ATOI1 973 CA ILE 9.8 33.361 AAAA C 874 6.384 55.296 1.00 30.17 ATOH CB ILE 89 32.941 AAAA C CG2 89 32.898 4.954 54.821 1.00 37.24 ATOH 875 ILE AAAA C 1.00 24.92 ATC:1 875 CG1 ILE 89 33.893 6.420 56.500 1.00 23.96 AAAA C ATOH 877 CD1 ILE B a 33.424 5.613 57.675 AAAA C 878 89 32.509 7.206 53.027 1.00 40.64 ATO! 1.00 38.69 AAAA O ATOH 970 Q ILE 89 31.330 6.881 53.205 7.464 1.00 41.45 H AAAA ATCH 980 11 PHE ū٨ 33.082 51.845 1.00 37.67 AAAA **ATOI1** 882 CA PHE 00 32.346 50.591 1.00 32.17 AAAA C 50.110 ATOH 883 CB PHE 90 32.347 8.776 1.00 39.77 AAAA ATO! I 884 CG PHE 411 31.591 9.081 48.865 9.772 49.025 47.620 AAAA 1.00 32.02 ATCH 885 CD1 PHE 90 30.387 8.721 1.00 29.28 AAAA 32.052 **ATOH** 886 CDS PHE 90 47.938 1.00 33.30 AAAA CE1 PHE 90 29.611 HOTA 887 10.111 1.00 43.09 AAAA CE2 PHE 9.086 46.534 HOTA 888 1.00 50.24 AAAA PHE è0 9.764 46.697 ATOH 889 CS 30.083 AAAA C 32.856 1.00 40.72 ATOI: 890 PHE 90 6.384 49.557 49.203 1.00 46.15 AAAA O ATOH 891 0 PHE 9ú 34.027 6.296 AAAA II 892 H GLU 91 32.024 5.519 49.001 1.00 39.16 ATO!! ATOH 894 CA GLU 91 32.248 4.601 47.954 1.00 42.45 AAAA AAAA C 32.479 46.583 1.00 38.08 ATOH 895 CB GLU 5.231 AAAA ATOH 896 GLU 91 31.136 5.865 46.250 1.00 58.86 AAAA C 1.00 63.55 897 30.855 5.776 44.757 ATOH CD GLU 91 1.00 64.10 AAAA 898 OE1 GLU 91 31.473 6.651 44.082 ATO!! AAAA O 1.00 63.64 999 GLU 91 30.058 4.813 44.573 NTON OE2 AAAA 1.00 42.06 900 GLU 91 33.422 3.734 48.313 ATOH AAAA O 1.00 44.71 901 GLU 91 34.298 3.411 47.587 ATOH1 AAAA 1.00 46.53 49.482 ATO!! 902 11 HET 92 33.350 3.209 2.401 1.00 42.26 AAAA 50.088 ATOH 904 CA HET 92 34.409 51.584 92 1.00 38.37 AAAA HOTA 905 CB HET 34.200 AAAA 1.00 59.29 35.412 2.156 52.420 **ATOH** 906 CG HET 3.306 1.00 57.67 AAAA 92 36.802 52.401 ATOH 907 SD DIET 51.108 1.00 38.36 AAAA ATOH GNR CE HET 92 36.340 4.405 1.00 43.37 AAAA 19.745 ATOH 909 C MET 92 34.012 1.005 1.00 45.58 AAAA 50.523 ATO!! 910 0 HET 92 33.335 0.298 93 1.00 47.09 AAAA ATC(1 911 11 THR 34.449 0.518 48,600 1.00 47.32 AAAA 48,273 HOTA 913 CA THR 93 34.175 -0.9001.00 55.29 ÷ 3 AAAA ATOH 911 CB THE 34.666 -1.281 46.868 1.00 57.81 45.892 AAAA 93 ATOH 215 OGI THR 34.013 -0.488 -2.715 AAAA C 46.516 1.00 44.71 CG2 THR ATOH 34.332

त्रकार अस्य के अन्य किस्सी के अस्ति । विश्वविद्या

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ATOI:	918	~	THR	23	34.985	-1.874	49.196	1.00 51.83	AAAA C
ATOH: ATOH	919 920	O II	THR ASU	9.1 9.3	36.115 34.237	-1.777 -2.983	49.493	1.00 57.91 1.00 49.85	O AAAA 11 AAAA
ATOH	922	CA	ASH	91	31.747	-4.069	50.285	1.00 45.64	AAAA C
ATOH	923	CB	ASH	9.4	36.241	-4.315	50.001	1.00 59.01	AAAA C AAAA C
ATCH ATOH	924 925	CG	ASH ASH	64 64	36.494 36.847	-4.849 -4.081	48.599 47.688	1.00 75.44 1.00 77.49	AAAA O
HOTA	926		ASI	51	36.308	-6.153	18.108	1.00 79.63	II AAAA II
HOTA	929	C	ASII	94	34.522	-3.938	51.763	1.00 42.58	AAAA C AAAA O
ATOH ATOH	930 931	0	ASI) LEU	94 95	34.752 34.308	-4.814	50.501 50.180	1.00 46.36 1.00 37.29	AAAA I:
ATON	÷33	сA	LEU	95	34.324	-2.277	53.621	1.00 39.96	AAAA C
ATOH	934 935	CB CG	LEU	95 95	34.195 34.323	-0.786 -0.296	53.851 55.269	1.00 34.05	алал С алал С
ATOH ATOH	936		LEU	95	35.795	-0.537	55.598	1.00 35.48	AAAA C
ATOH	437		LEU	95	33.847	1.177	55.344	1.00 25.46	AAAA C AAAA C
ATON ATON	939 938	0	LEU	95 95	33.163 32.048	-2.986 -2.936	54.275 53.772	1.00 44.04	AAAA O
ATOH	940	†1	LYS	96	33.451	-3.863	55.213	1.00 46.50	AAAA II
ATON ATOM	943 942	CA CB	LYS LYS	96 96	32.364 32.801	-4.648 -6.075	55.779 55.995	1.00 42.76	AAAA C AAAA C
ATOH	944	OG.	LYS	96	32.760	-5.976	54.788	1.00 49.78	AAAA C
ATOH	9.15	CD	LYS	96	32.984	-8.446	55.127	1.00 58.09	AAAA C AAAA C
ATOH:	946 947	CE NS	LYS LYS	96 96	33.772 34.098	-9.160 -10.556	54.027 54.489	1.00 79.13	AAAA II
ATOH	951	C	LYS	96	31.970	-4.055	57.122	1.00 45.29	AAAA C
ATOH	952 953	0	LYS ASF	96 97	30.978 32.685	-4.502 -3.071	57.691 57.645	1.00 46.23	AAAA O AAAA II
ATOH ATOH	955	CA	ASP	97	32.299	-2.384	58.861	1.00 42.15	AAAA C
ATOH	956	CB	ASF	97	32.294	-3.292	60.059	1.00 45.39	AAAA C
ATOH ATOH	957 958	CG OD1	ASP ASP	97 97	33.662 34.579	-3.562 -2.825	60.624 61.012	1.00 56.95 1.00 59.88	AAAA C AAAA O
ATON	959		ASF	97	33.931	-4.782	60.714	1.00 56.01	AAAA O
ATOH	960	C	ASP	97	33.209	-1.224	59.201 58.437	1.00 41.25 1.00 47.03	AAAA C AAAA O
ATOH ATOH	961 962	0	ASF ILE	97 98	34.160 32.822	-1.074 -0.366	60.129	1.00 40.41	AAAA II
ATOH	÷64	CA	ILE	98	33.675	0.820	60.340	1.00 37.83	AAAA C
ATOH ATOH	965 966	CB CG2	ILE ILE	98 98	32.983 34.007	2.006 3.133	61.006 61.207	1.00 38.99	AAAA C AAAA C
ATOI:	967		ILE	98	31.835	2.488	60.092	1.00 34.84	aaaa c
ATOH	968		ILE	∂6 ∂8	31.629	3.958 0.322	59.948 61.114	1.00 39.29 1.00 35.11	AAAA C AAAA C
ATOH ATOH	969 970	С 0	ILE ILE	98 96	34.854 35.970	0.669	60.841	1.00 43.95	AAAA O
HOTA	971	:1	GLT	9 g	34.618	-0.393	62.192	1.00 34.22 1.00 33.74	AAAA II AAAA C
ATO!! ATO!!	973 974	CA C	GLY GLY	à ò à ò	35.477 36.279	-0.972 -0.084	63.121 64.024	1.00 35.74	AAAA C
ATOII	975	ō	GLY	99	37.023	-0.572	64.899	1.00 38.21	AAAA O
ATOH	976 978	II CA	LEU	100 100	36.190 36.763	1.221	63.913 64.771	1.00 33.35 1.00 31.65	AAAA 11 AAAA C
ATOH ATOH	979	CB	LEU	100	36.496	3.636	64.294	1.00 29.87	AAAA C
ATON	580	CG CG1	LEU	100	36.943	3.980	62.835 62.610	1.00 32.13	AAAA C AAAA C
ATOH	991 982	CD1 CD2	LEU	100 100	36.710 38.412	5.479 3.599	62.644	1.00 37.68	AAAA C
ATOH	983	C	LEU	100	36.312	1.976	66.194	1.00 31.94	AAAA C
ATOI:	984 985	0	LEU TYR	100 101	35.950 36.704	2.863 0.851	66.979 66.779	1.00 31.95 1.00 31.87	O AAAA II AAAA
ATOII	987	CA	TTR	101	36.329	0.395	68.071	1.00 33.33	AAAA C
ATOH	988	CB	TYR	101	36.491	-1.104	68.264 68.369	1.00 41.03 1.00 46.66	D AAAA D AAAA
ATOH ATCH	660 585	CG CD1	TYR TYR	101 101	37.919 39.571	-1.559 -1.380	69.587	1.00 51.20	AAAA C
HOTA	991	CEl	TTR	191	39.901	-1.743	69.749	1.00 49.44	AAAA C
ATOH ATOH	993 992	CD2	TTR TTR	101 101	38.615 39.927	-2.112 -2.505	67.322 67.479	1.00 45.15 1.00 47.08	АААА С АААА С
ATOM	994	Cü	TTR	191	10.548	-2.321	68.688	1.00 49.43	AAAA C
ATOI I	397 395	C OH	TYR	101 101	41.834	-2.662 1.059	68.997 69.214	1.00 55.82 1.00 33.46	AAAA O AAAA C
ATOH ATOH	908	0	TYR	101	36.989 36.630	0.813	70.375	1.00 43.00	AAAA O
ATOH	999	П	ASII	102	37.752	2.091	69.068	1.00 38.12	AAAA II AAAA C
ATON ATON	1001 1002	CA CB	ASH ASH	102 102	38.093 39.603	2.979	70.223	1.00 30.79 1.00 48.63	AAAA C
ATOH	1003	CG.	ASII	102	40.113	1.804	71.268	1.00 54.01	AAAA C
ATOH	1004		ASH	102	39.736 40.864	1.864 9.845	72.454 70.767	1.00 47.22	AAAA O AAAA II
ATOH ATOH	1005 1008	0.007	ASII ASII	102 102	37.673	4.385	69.947	1.00 33.82	AAAA C
ATOH	1009	0	ASH	102	38.047	5.364	70.592	1.00 39.84 1.00 35.28	AAAA O AAAA II
HOTA HOTA	1010	II CA	LEU	103 103	36.845 36.473	4.640 6.040	68.982 68.621	1.00 36.57	AAAA C
ATOH	1013	CB	LEU	193	35.948	6.140	67.213	1.00 34.77	AAAA C
ATOH	1014	CG	LEU	103	35.525	7.482 8.513	66.612 66.646	1.00 30.32	AAAA C AAAA C
ATOH ATCH	1015 1016		LEU	103 103	36.606 35.199	7.169	65.146	1.00 37.10	AAAA C
ATO!!	1017	Ċ	LEU	193	35.484	6.508	69.691	1.00 37.31	AAAA C AAAA O
ATOH ATOH	1018	о П	LEU ARG	103 104	34.44°	5.874 7.456	69.837 70.563	1.00 33.31	AAAA II
ATOH	1021	CA	Als:3	104	34.920	7.041	71.605	1.00 29.84	AAAA C

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ATO:1	1022	CB ARG	104	35.568	7.657	73.019	1.00 38.17	AAAA C
ATC:1	1023	CG ARG	104	36.356	5.375	73.165	1.00 48.37	aaaa c
ATCH ATOH	1024	CD ARG	194 194	35.425 34.582	5.183 5.320	74.413	1.00 50.71 1.00 52.38	AAAA C AAAA H
ATOH	1027	CC ARG	104	34.900	4.847	75.621	1.00 72.73	AAAA C
ATON	1029	NH1 ARG NH2 ARG	104	36.047	4.214	75.900	1.00 81.87	II AAAA II AAAA
ATOH HOTA	1031	C ARG	104 104	33.990 34.466	5.070 9.273	76.577 71.540	1.00 78.27	AAAA C
ATOH	1035	O ARG	104	33.553	9.743	72.223	1.00 39.89	AAAA O
ATO: I	2036 1038	II ASII CA ASII	105 105	34.992 34.549	10.065	70.637 70.590	1.00 33.47 1.00 30.97	AAAA !! AAAA C
ATCH	1011	C ASII	105	34.907	12.149	69.310	1.00 31.00	AAAA C
HOTA HOTA	1045	O ASH CB ASH	105 105	36.086 35.203	12.067	69.050 71.721	1.00 37.79 1.00 12.28	0 AAAA 0 AAAA
ATOH	1040	CG ASH	105	34.786	13.568	71.756	1.00 24.93	AAAA C
aton Aton	1041 1040	OD1 ASH HD2 ASH	105 105	35.125	14.549	71.127 72.649	1.00 38.14 1.00 35.96	AAAA 0 11 AAAA 11
ATOM	1046	II ILE	105	33.828 33.969	13.985	68.576	1.00 31.90	AAAA II
ATOH	1048	CA ILE	106	34.129	13.551	67.469	1.00 23.39	AAAA C
ATON ATON	1049 1050	CB ILE	106 106	33.239 33.132	13.185 14.408	66. 3 07 65. 3 74	1.00 16.54 1.00 20.39	AAAA C AAAA C
ATOH	1051	CG1 ILE	106	33.928	12.634	65.558	1.00 18.30	AAAA C
MOTA NOTA	1052 1053	CD1 ILE	106 106	33.055 33.803	11.293	64.643 68.009	1.00 25.48 1.00 27.40	AAAA C AAAA C
ATOI1	1054	O ILE	106	32.628	15.106	68.243	1.00 32.86	AAAA O
ATCI1	1055	II THR	107 107	34.719	15.789	68.350 69.145	1.00 30.43 1.00 28.27	aaaa ii aaaa c
ATOH ATOH	1057 1058	CB THR	107	34.532 35.902	16.983 17.607	69.579	1.00 35.78	AAAA C
ATOH	1059	OG1 THR	107	36.819	16.503	69.739	1.00 40.26	AAAA C
HOTA	1061 1062	CG2 THR C THR	107 107	35.954 33.728	18.411 17.950	70.855 69.332	1.00 28.13 1.00 27.95	AAAA C G AAAA
ATOH	1063	O THR	107	33.392	19.060	68.831	1.00 32.99	AAAA O
ATOM ATOM	1064 1066	II ARG CA ARG	108 108	33.669 33.046	17.777 18.809	67.019 66.180	1.00 30.28 1.00 31.25	aaaa ii aaaa c
MOTA	1067	CB ARG	108	33.965	20.011	65.951	1.00 25.13	AAAA C
ATON	1068	CG ARG	108	33.105	21.174	65.543	1.00 30.68 1.00 17.12	AAAA C AAAA C
ATOM ATOM	1069 1070	CD ARG	108 108	33.917 33.511	22.444	65.529 64.451	1.00 33.40	AAAA II
ATOM	1072	CZ ARG	108	34.045	23.608	63.266	1.00 46.41	AAAA C
ATOH ATOH	1073 1076	HH1 ARG	108 108	35.162 33.454	22.929	62.868 62.494	1.00 40.30 1.00 39.82	AAAA II .AAAA II
HOTA	1979	C ARG	108	32.701	18.328	64.784	1.00 31.50	AAAA C
ATOM ATOM	1080 1081	O ARG	108 109	33.379 31.567	17.381 18.809	64.430 64.284	1.00 32.67 1.00 32.60	AAAA O AAAA II
HOTA	1083	CA GLT	109	31.082	18.385	62.983	1.00 28.87	аааа с
ATOH ATOH	1084 1085	O GLY	109 109	30.470 30.471	17.008 16.306	63.001 64.006	1.00 32.32 1.00 38.03	аааа с аааа о
ATOH	1085	II ALA	110	29.920	16.560	61.894	1.00 34.11	II AAAA
ATOH ATOH	1088	CA ALA CB ALA	110	29.086	15.371 15.721	61.833	1.00 36.77 1.00 15.32	AAAA C AAAA C
ATOL	1089 1090	C ALA	110 110	27.708 29.745	14.335	61.223 60.957	1.00 32.12	AAAA C
ATON	1091	O ALA	110	30.921	14.332	60.687	1.00 34.11	O AAAA
HOTA	1092 1094	II ILE	111 111	29.030 29.569	13.337	60.557 59.771	1.00 26.55 1.00 32.90	aaaa ii aaaa c
ATON	1095	CB ILE	111	29.669	10.967	60.591	1.00 38.07	AAAA C
ATOH ATOH	1096 1097	CG2 ILE	111 111	30.091 28.345	11.140	62.036 60.684	1.00 34.05 1.00 26.54	дааа с аааа с
ATON	1098	CDI ILE	111	28.437	8.872	61.407	1.00 27.11	AAAA C
ATOH ATOH	1099 1100	C ILE	111 111	28.738 27.533	11.928	58.521 58.532	1.00 33.98 1.00 32.15	Э АААА О АААА
HOTA	1101	II ARG	111	29.432	11.423	57.501	1.00 30.54	AAAA H
ATOI1	1103	CA ARG	112	28.773	11.107	56.247	1.00 27.48	AANA C AAAA C
ATC:1 ATO:1	1194 1105	CB ARG	112 112	29.186 29.549	12.085	55.169 53.816	1.00 26.35 1.00 25.83	AAAA C
ATOH	1106	CD ARG	112	28.659	12.912	52.992	1.00 32.92	AAAA C
ATOH ATOH	1107 1109	HE ARG	112 112	27.950 27.778	12.726	\$1.770 \$0.720	1.00 50.34 1.00 47.61	AAAA C
ATOH	1110	UH1 ARG	112	28.334	14.695	50.696	1.00 44.92	AAAA II
MOTA HOTA	1113	NH2 ARG C ARG	112 112	27.012 29.260	12.925 9.738	49.789 55.791	1.00 46.00	аааа 11 аааа с
ATOH	1117	O ARG	112	30.343	9.611	55.406	1.00 36.53	AAAA O
ATOH	1118	II ILE	113	28.326	9.754	55.886 55.555	1.00 33.99 1.00 36.26	aaaa d aaaa c
ATOH HOTA	1120 1121	CA ILE	113 113	28.612 28.457	7.376 6.461	56.760	1.00 33.27	AAAA C
HOTA	1122	CG2 ILE	113	28.850	5.021	56.449	1.00 15.85	AAAA C AAAA C
ATOH ATOH	1123	CG1 ILE	113 113	29.374 29.324	7.012 6.250	57.874 59.176	1.00 31.92 1.00 42.34	AAAA C
HOTA	1125	C ILE	113	27.729	6.959	54.398	1.00 39.26	AAAA C
ATCH ATOH	1126 1127	O ILE	113 114	26.637 28.175	6.482 7.199	54.664 53.190	1.00 50.72 1.00 35.86	aaaa o aaaa ii
ATOH	1129	CA GLU	114	27.491	7.103	51.935	1.00 38.76	AAAA C
ATOH	1130	CB GLU	114	27.471	8.443	51.216	1.00 25.58	AAAA C AAAA C
ATOH ATOH	1131 1132	CD GLU	114 114	26.567 26.349	8.402 9.840	49.969	1.00 36.85	AAAA C
ATO!	1133	OE1 GLU	114	26.763	10.663	50.414	1.00 45.57	AAAA O

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ATON ATON	1134 1135		GLU GLU	114 114	25.787	10.106	48.488	1.00 35.53 1.00 44.17	O AAAA O AAAA
ATOM	1136	С 0	GLU	114	28.039 29.120	6.672 5.538	50.944 51.090	1.00 49.97	AAAA O
ATCH	1137	н	1.73	115	27.191	5.556	50.096	1.00 40.55	AAAA II
ATCH ATCH	1139	CA CB	LYS LYS	115 115	27.219 27.275	4.440	49.242 47.719	1.00 41.16 1.00 23.62	AAAA C AAAA C
ATOH	1141	CS	LTS	115	27.019	6.194	47.411	1.00 19.39	AAAA C
MOTA	1142	CD	LYS	115	26.537	6.355	45.982	1.00 24.74	AAAA C
ATON ATOM	1144	CE	LYS LYS	115 115	26.751 27.165	7.804 8.045	45.622 44.196	1.90 41.86 1.00 60.91	AAAA C H AAAA H
ATCH	1148	Ç	LTS	115	28.297	3.421	49.611	1.00 42.39	AAAA C
ATOM	1149	0	LYS	115	29.102	3.103	48.749	1.00 46.68	AAAA O
ATOH ATOH	1150 1152	ri CA	ASII ASII	116 116	28.137	2.677 1.570	50.665 50.976	1.00 40.99 1.00 37.33	11 AAAA C AAAA
ATOH:	1153	CB	ASI!	116	29.534	1.869	52.381	1.00 46.12	AAAA C
ATOM	1154	CG	ASII	116	30.372	3.153	50.315	1.00 49.92	AAAA C AAAA O
HOTA HOTA	1155 1156		ASH ASH	116 116	31.337 29.927	3.016 4.174	51.583 53.056	1.00 38.59 1.00 37.35	AAAA :
ATOH	1159	c	ASII	116	28.275	0.277	50.974	1.00 42.52	адад С
ATON	1160	0	IIRA	116	28.067	-0.361	52.033	1.00 48.24 1.00 40.94	0 AAAA 11 AAAA
ATON:	1161 1163	ti CA	ALA ALA	117 117	27.989 27.195	-0.188 -1.376	49.772	1.00 43.35	AAAA C
ATOM	1164	CB	ALA	117	27.494	-1.894	48.156	1.00 47.63	AAAA C
HOTA	1165	C	ALA	117 117	27.294	-2.504	50.529	1.00 46.55 1.00 51.24	А ЛАА С А ЛАА О
ATOH	1166 1167	11	ALA ASP	118	26.211 28.484	-2.998 -2.823	50.890 51.005	1.00 47.43	AAAA II
ATOH	1169	CA	ASF	118	28.559	-3.980	51.920	1.00 45.74	AAAA I
ATOH	1170 1171	CB CG	ASF ASP	118 119	29.659 29.684	-4.945 -5.119	51.477 49.958	1.00 55.39 1.00 59.40	0 AAAA 0 AAAA
ATOH	1172		ASP	118	28.870	-5.976	49.608	1.00 64.40	AAAA O
HOTA	1173		ASP	118	30.448	-4.447	49.207	1.00 66.73	AAAA O
ATOM ATOM	1174 1175	0	ASP ASP	118 118	28.818 29.127	-3.586	53.353 54.026	1.00 37.29 1.00 42.89	AAAA C AAAA G
ATOH	1176	11	LEU	119	28.670	-4.536 -2.327	53.685	1.00 36.46	II AAAA
HOTA	1178	CA	LEU	119	28.986	-1.885	55.047	1.00 40.58	AAAA C
ATOM ATOM	1179 1180	CB CG	LEU	119 119	29.159 29.640	-0.389 0.331	55.145 56.378	1.00 34.31 1.00 36.58	AAAA C AAAA C
ATON	1181		LEU	119	30.950	-0.101	56.948	1.00 35.77	AAAA C
ATOH	1182		LEU	119	29.791	1.830	56.104	1.00 29.68	AAAA C
ATOM ATOM	1183 1184	С 0	LEU LEU	119 119	27.937 26.748	-2.376 -2.248	56.007 55.743	1.00 43.67 1.00 45.32	AAAA C AAAA O
HOTA	1185	И	CYS	120	28.361	-2.967	57.110	1.00 43.53	AAAA II
ATON	1187	CA	CYS	120	27.378	-3.407	58.089	1.00 38.93 1.00 41.91	AAAA C C AAAA
ATOH ATOH	1188 1189	c C	C.Y.S. C.Y.S.	120 120	27.881 28.660	-2.921 -1.960	59.426 59.446	1.00 41.91	AAAA O
ATOH	1190	CB	CYS	120	27.205	-4.907	58.100	1.00 37.59	AAAA C
HOTA	1191 1192	SG II	CYS	120 121	26.568 27.328	-5.622	56.639 60.509	1.00 58.32 1.00 38.05	AAAA S AAAA II
HOTA	1194	CA	TTR	121	27.795	-3.456 -3.010	61.927	1.00 39.68	AAAA C
ATOI1	1195	CB	TTR	121	29.189	-3.572	62.130	1.00 34.61	AAAA C
ATO⊡ ATO⊡	1196 1197	COL	TTR TTR	121 121	28.950 29.087	-5.032 -6.045	62.519 61.582	1.00 36.52 1.00 33.58	D AAAA D AAAA
ATOH	1198		TTR	121	28.852	-7.350	61.980	1.00 41.21	AAAA C
ATOH1	1199	CD2	TTR	121	28.560	-5.337	63.817	1.00 36.31	AAAA C
ATOH ATOH	1200	CEZ	TTR	121 121	28.297 28.432	-6.630 -7.641	64.201 63.270	1.00 39.48 1.00 46.07	AAAA C AAAA C
ATOH	1202	OH	TYR	121	28.161	-8.924	63.730	1.00 49.20	AAAA O
ATOM	1204	C	TYR	121	27.674	-1.523	61.789	1.00 38.83	AAAA C AAAA O
ATOH ATOH	1205 1206	O O	TYR LEU	121 122	28.445 26.587	-0.778 -1.045	62.369 61.180	1.00 43.22 1.00 39.58	AAAA U
ATOH:	1208	CA	LEU	122	26.361	0.405	61.090	1.00 44.82	AAAA C
ATO!!	1209	CB	LEU	122	25.990	0.715	59.634	1.00 46.48	AAAA C AAAA C
ATOH ATON	1210 1211	CG CD1	LEU	122 122	26.497 25.778	2.014	59.108 57.859	1.00 44.44	AAAA C
HOTA	1212	CDC	LEU	122	26.136	3.057	60.170	1.00 47.76	AAAA C
ATON	1213	C	LEU	122	25.212	0.910	61.935	1.00 44.85 1.00 47.66	AAAA C AAAA O
ATOM ATOM	1214	0	LEU SER	122 123	25.269 24.104	1.759 0.137	62.839	1.00 40.12	AAAA II
ATOH	1217	CA	SER	123	22.949	0.435	62.703	1.00 33.98	AAAA C
ATOH ATOH	1218 1219	CB OG	SER	123	21.754	-0.330	62.239 62.402	1.00 19.26 1.00 34.35	AAAA C AAAA O
ATOH	1221	Č. Gr⊒	SER SER	123 123	21.964 23.165	-1.762 0.060	64.159	1.00 37.43	aaaa c
ATOH	1222	O	SER	123	22.326	0.280	65.025	1.00 35.33	AAAA O
ATOH ATOH	1223	CV.	THR THR	124 124	24.242 24.554	-0.698 -1.165	64.432 65.753	1.00 39.03 1.00 37.79	AAAA D
ATOH	1226	CB	THR	124	25.368	-2.461	65.719	1.00 42.39	AAAA C
ATOH	1227	031	THE	124	26.502	-2.020	64.924	1.00 47.70	0 AAAA 2 AAAA
ATON ATON	1229 1230	C CC3	THR THR	124 124	24.677 25.522	-3.622 -0.206	65.006 66.445	1.00 40.93 1.00 39.29	AAAA C
ATOII	1231	ō	THR	124	25.948	-0.642	67.499	1.00 41.41	AAAA O
HOTA	1232	11	VAL	125	25.737	1.001	65.985	1.00 37.80	II AAAA C AAAA
ATOH:	1234 1235	CB CX	VAL VAL	125 125	26.594 27.683	1.964 2.542	66.661 65.711	1.00 41.06 1.00 39.50	AAAA C
ATOH	1236	CG1	VAL	125	28.570	3.599	66.352	1.00 28.36	AAAA C
HOTA	1237	CG2	VAI.	125	28.693	1.565	65.110	1.00 33.07	AAAA C

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ATO!	1238	c	VAL	125	25.759	: 122	13/58	1.00 41.17	AAAA c
ATOH	1239	ò	VAL	125	24.941	3.127 3.750	67.173 66.531	1.00 41.22	AAAA O
ATCH	1240	(;	ASP	126	25.072	3.636	68.367	1.00 44.54	AAAA II
atch atch	1242	CA CB	ASP ASP	126 126	25.310 24.862	4.734	68.967 70.342	1.00 37.44	7444 C
ATCH	1244	CG	ASP	126	23.879	5.303	70.983	1.00 45.53	AAAA C
ATCH	1245		ASP	126	23.699	6.520	70.685	1.00 27.71	AAAA O
MOTA NOTA	1246	OD2 C	asp asf	126 126	23.220 26.146	4.865 5.985	71.964 68.872	1.00 52.32 1.00 40.83	AAAA 0 AAAA C
ATOM	1248	Ç	ASP	126	26.740	6.400	69.888	1.00 42.78	AAAA O
HOTA	1249	N CA	TRP TRP	127	26.029	6.649	67.704 67.410	1.00 35.42 1.00 33.02	N AAAA
ATOH	1251	CB	TRP	127 127	26.777 26.568	7.856 9.296	65,930	1.00 24.89	2 AAAA C AAAA
ATOH	1253	CQ.	TRP	127	27.195	7.372	64.907	1.00 34.36	AAAA C
ATOH ATOH	1254	CEC	TRP TRP	127 127	28.587 28.631	7.208 6.186	64.518 63.579	1.00 28.60 1.00 29.06	AAAA C AAAA C
ATOH	1256		TRF	127	29.778	7.845	64.873	1.00 35.51	AAAA C
ATOH:	1257		TRP	127	26.465	6.450	64.188	1.00 18.67	AAAA C
ATOH ATOH	1058 1060	CCC	TRP TRP	127 127	27.311 29.792	5.712 5.783	63.394 62.954	1.00 42.87 1.00 32.53	II AAAA C AAAA
ATCH	1261	CC3	TRP	127	30.970	7.445	64.285	1.00 31.51	аааа с
ATOH ATOH	1262 1263	CH2 C	TRP TRP	127 127	30.937 26.558	6.405	63.336	1.00 37.86 1.00 36.09	AAAA C AAAA C
HOTA	1264	Ö	TRP	127	27.382	9.010 9.977	68.367 68.497	1.60 40.87	AAAA C
MOTA	1265	(1	SER	128	25.493	8.931	69.171	1.00 31.24	II AAAA
ATOH ATOH	1267 1268	CA CB	SER SER	128 128	25.201 23.757	10.041 10.042	70.081 70.603	1.00 34.04 1.00 36.87	aaaa c aaaa c
ATON	1269	OG	SER	129	23.433	8.917	71.424	1.00 28.96	AAAA O
ATOH	1271	Ç	SER	128	26.133	9.975	71.292	1.00 32.39	AAAA C
ATOH ATOH	1272 1273	o H	SER LEU	128 129	26.212 26.662	10.957 8.792	72.134 71.549	1.00 30.91 1.00 27.18	0 AAAA 11 AAAA
ATOH	1275	CA	LEU	129	27.701	8.607	72.526	1.00 36.73	AAAA C
ATOH	1276	CB	LEU	129	27.920	7,132	72.741	1.00 32.53 1.00 39.28	AAAA C AAAA C
ATOH ATOH	1277 1278	CG CD1	LEU LEU	129 129	26.795 27.292	6.324 5.024	73.371 73.975	1.00 32.54	AAAA C
ATO!1	1279		LEU	129	26.237	7.117	74.560	1.00 32.12	AAAA C
ATOM ATOM	1280 1281	0	LEU	129 129	29.054 29.645	9.226 10.001	72.113	1.00 38.04 1.00 34.50	AAAA C AAAA O
ATOH	1282	H	ILE	130	29.316	9.217	70.807	1.00 42.09	AAAA N
ATON	1284	CA	ILE	130	30.480	9.743	70.144	1.00 41.35 1.00 41.73	AAAA C AAAA C
ATON ATON	1285 1286	CB CG2	ILE	130 130	30.793 31.992	8.886 9.434	68.901 68.176	1.00 41.75	AAAA C
ATOI1	1297	CG1	ILE	130	30.969	7.413	69.347	1.00 26.64	AAAA C
ATOH ATOH	1288 1289	CDI	ILE ILE	130 130	31.053 30.305	6.457 11.178	68.165 69.679	1.00 42.65 1.00 46.48	AAAA C AAAA C
ATOH	1290	ō	ILE	130	31.224	11.985	69.966	1.00 38.46	AAAA O
ATOH	1291 1293	F1	LEU	131	29.089	11.495	69.193	1.00 45.14 1.00 41.45	11 AAAA C AAAA
ATON ATON	1294	CA CB	LEU	131 131	28.895 28.499	12.865	68.651 67.259	1.00 46.81	AAAA C
ATOH	1295	CG	LEU	131 .	28.823	12.805	65.878	1.00 36.79	AAAA C
HOTA	1296 1297		LEU LEU	131 131	29.128 27.625	11.405 13.581	65.324 65.334	1.00 30.15 1.00 19.92	AAAA C AAAA C
ATC1:	1298	Ċ	LEU	131	27.661	13.525	69.285	1.00 39.20	AAAA C
ATOH	1299	0	LEU	131	26.599	12.867	69.311	1.00 37.7E 1.00 33.73	AAAA O
ATOH ATOH	1300 1302	GA.	ASP ASP	132 132	27.742 26.610	14.811 15.542	59.518 70.003	1.00 38.20	AAAA II AAAA C
ATO!!	1303		ASP	132	27.017	16.944	70.381	1.00 43.17	AAAA C
ATON ATOM	1304 1305	CG	ASP ASP	132 132	27.349 27.536	17.137	71.834 72.521	1.00 43.29	AAAA C AAAA O
ATQU	1306		ASF	132	27.413	18.331	72.208	1.00 60.58	A.F.A. O
ATOH	1307	C	ASP	132	25.520	15.659	68.946	1.30 43.46	AAAA C
ATOH ATOH	1308 1309	0	ASP Ala	132 133	24.481 25.754	15.032 16.398	68.939 67.900	1.00 49.32 1.00 45.03	O AAAA H AAAA
ATOH	1311	CA	ALA	133	24.947	16.776	66.773	1.00 38.62	AAAA C
HOTA HOTA	1312 1313	CB C	ALA ALA	133 133	25.628 24.694	17.987 15.669	66.092 65.775	1.00 33.82	AAAA C AAAA C
ATOM	1314	Ö	ALA	133	24.777	15.791	64.517	1.00 33.71	AAAA O
ATOH	1315	11	VAL	134	24.115	14.565	66.219	1.00 27.88	AAAA II
ATOH ATOH	1317 1318	CA CB	VAL VAL	134 134	23.813	13.440	65.377 66.120	1.00 29.90	AAAA C
HOTA	1319	CGl	VAI.	1.34	24.265	11.441	66.855	1.00 35.20	AAAA 🦿
ATOH	1320	CG2	VAL	134	22.095	12.701	67.068	1.00 30.84	AAAA C
ATOH ATOH	1321	O C	VAL VAL	134 134	22.735 22.616	13.732 13.106	64.353 63.292	1.00 32.95	AAAA O
HOTA	1323	11	SER	135	21.920	14.777	64.626	1.00 39.65	AAAA II
HOTA	1325 1326	CA	SER SER	135 135	20.986 20.093	15.139	63.692 64.305	1.00 43.12	AAAA C AAAA C
HOTA	1327	03	SER	135	20.882	17.369	64.684	1.00 39.25	AAAA O
ATOH	1329	Ċ	SER	135	21.396	15.516	62.309	1.00 41.15	AAAA C
ATCH ATCH	1330 1331	0	SER ASH	135 136	20.815 22.615	15.642 15.911	61.359 62.165	1.00 43.81	D AAAA U AAAA
ATOH	1333	CA	ASH	136	23.298	16.353	60.978	1.00 37.21	ን ዶጹፉሩ
ATCH	1334	CB CG	ASH	136	24.324	17.372	61.399 61.717	1.00 39.66 1.00 36.59	AAAA C AAAA C
ATCH ATOH	1335 1336		asii Asii	136 136	23.724 22.695	19.709	61.149	1.00 50.81	AAAA O

14/58 1.00 47.85 AAAA II 24.379 ATOH 1337 HD2 ASH 136 19.441 62.585 21.531 AAAA C 136 1.00 35.31 ATCH 1340 ASII 15.230 60.259 1.00 38.70 AAAA O ASH 136 HOTA 1341 15.484 59.194 137 LI AAAA ATOH 1342 ASH 24.057 14.035 60.793 1.00 29.11 1.00 32.98 AAAA C HOTA 1344 ASII 137 24.721 12.959 60.126 ATOH! 1345 CB ASH 137 24.737 11.703 61.033 1.00 24.45 AAAA C AMAA C HOTA 1346 CJ ASH 137 25.631 11.965 62.217 1.00 26.63 AAAA O ATCH 1347 OD1 ASI: 137 26.070 62.369 1.00 30.22 13.121 AAAA II 1.00 18.90 ATCH 1348 HD2 ASH 137 25.830 10.923 63.000 1.00 35.89 AAAA ATOH: 1351 ASIL 137 23.950 12.749 58.817 22.716 ō 1.00 38.57 AAAA O HOTA 1352 ASII 137 12.755 58.855 AAAA II TYS 57.785 1.00 32.86 ATCIL 1353 11 138 24.592 12.251 1.00 30.25 AAAA CA TYR 11.983 56.489 138 24.093 NOTE 1355 1.00 27.10 AAAA C TYR 55.421 ATOH 1356 CB 138 24.682 12.861 1.00 37.89 12.741 54.079 AAAA C 1357 TTR 138 ATOLL CG 24.018 23.093 AAAA C 53.648 1.00 39.22 COL TYR 13.671 ATC(1 1358 138 1.00 37.65 AAAA C HOTA 1359 CEL TYR 138 13.579 52.392 11.717 24.357 1.20 44.29 AAAA C CD2 TTR 138 53.195 ATOH 1360 AAAA C CEC TYR 1.00 41.97 HOTA 1361 138 23.901 11.615 51.951 AAAA C 12.562 51.564 1.00 39.42 ATOH TYR 138 22.868 AAAA O HOTA 1363 OH TYR 136 22.296 12.504 50.318 1.00 45.48 AAAA C MOTA TYR 24.373 10.579 56.051 1.00 31.33 AAAA O TYR 25.505 10.317 55.797 1.00 37.76 ATOH 1366 138 AAAA H 23.461 ATOH 1367 ILE 139 9.660 56.116 1.00 35.40 AAAA C CA ILE 139 23.637 8.249 55.935 1.00 34.04 ATOH 1369 1.00 28.66 AAAA C 1370 CB ILE 139 23.234 7.450 57.171 HOTA 1.00 21.99 AAAA C NOTA 1371 CG2 ILE 139 23.640 5.984 57.093 1.00 42.81 AAAA C HOTA 1372 CG1 ILE 139 23.711 8.057 58.469 AAAA C 1.00 52.23 ATOH 1373 CD1 ILE 139 24.455 7.100 59.389 S. 1.00 35.73 AAAA C 22.729 ATOH. 1374 ILE 139 7.708 54.930 AAAA O 54.757 1.00 42.61 ATOM. 1375 0 ILE 139 21.538 7.890 23.286 22.533 1.00 35.29 AAAA II 6.997 HOTA 1376 11 VAL. 140 53.973 1.00 32.39 AAAA C CA VAL 52.755 1378 6.481 7.627 ATOH 140 21.967 AAAA C ATOH 1379 CB VAL 149 51.881 1.00 36.05 1.00 25.88 AAAA C 1380 CG1 VAL 140 8.375 50.881 ATOM: CG2 VAL 20.807 51.047 1.00 34.96 AAAA C ATOM 1381 140 7.034 VAL 51.874 1.00 41.96 AAAA C 140 23.422 5.670 HOTA 1382 24.537 1.00 44.03 AAAA O VAL 6.172 51.637 ATOM 1383 140 1.00 42.66 AAAA II 141 22.899 4.562 51.402 ATOM: 1384 GLY AAAA C 141 23.381 50.278 1.00 30.94 HOTA 1386 CA GLY 3.805 AAAA C ATOM 1387 GLY 141 24.265 2.696 50.835 1.00 38.98 AAAA O 1.00 35.87 1398 GLY 141 25.132 2.003 50.176 ATOH AAAA !! 1.00 38.92 1389 IIZA 142 23.985 2.418 52.116 ATOH 11 1.00 44.32 AAAA C НОТА 1391 CA ASII 142 24.858 1.390 52.746 1.00 43.12 AAAA C 54.187 HOTA 1392 CB ASH 142 25.257 1.774 AAAA 3.022 3.077 1.00 42.00 54.150 ATOH 1393 CG ASH 142 26.131 AAAA O 1.00 40.47 ODL ASH 53.269 HOTA 1394 142 26.934 AAAA II 4.022 55.019 1.00 41.98 ATOLL 1395 HD2 ASH 142 25.945 52.687 52.055 1.00 45.84 AAAA C ASII 142 24.153 0.066 HOTA 1308 AAAA O 142 1.00 49.65 ASII 23.113 -0.015ATOLL 1300 -0.990 53.272 1.00 45.23 II AAAA 1400 LYS 143 24.574 ATOH 1) 24.973 -2.299 53.195 1.00 49.14 AAAA C CA LYS ATOH 1400 143 25.166 24.750 AAAA C -3.328 1.00 41.49 1103 CB LYS 53,433 ATOH 1.13 AAAA 1.00 44.96 53.832 CG LYS -4.686 ATOM 1404 143 AAAA C 53.100 1.00 48.66 25.512 -5.743 ATOH 1405 CD LYS 143 AAAA C 25.043 -7.131 53.558 1.00 38.35 LYS ATOH 1406 CE 143 AAAA II 26.080 53.040 1.00 53.83 ATOH. 1407 HZ LYS 143 -8.093 54.169 1.00 52.85 AAAA C ATOH 1411 С LïS 143 22.902 -2.43122.960 1.00 55.21 AAAA O ATOH 143 -2.099 55.360 1412 0 LYS ATOU 1413 11 FRO 144 21.906 -3.047 53.731 1.00 52.39 AAAA :1 CD PRO 144 21.617 -3.469 52.315 1.00 52.58 AAAA C ATOH: 1414 1.00 48.30 AAAA 144 ATOL CA PRO 20.559 -3.118 54.489 1415 AAAA 144 19.549 -3.602 53.455 1.00 51.41 ATOH 1416 PRO AAAA PRO 144 20.134 -3.299 52.099 1.00 50.41 ATOH: 1417 CC 1.00 44.65 AAAA ATOH 1418 PRO 144 20.621 -4.050 55.659 1.00 36.84 AAAA HOTA 1419 PRO 144 20.964 -5.236 55.501 AAAA 1.00 45.12 ATOH 1420 11 FRO 145 20.318 -3.533 56.859 CD PRO AAAA 1.00 38.17 -2.054 57.094 HOTA 1421 145 20.123 AAAA 58.128 1.00 40.19 -4.233 -3.288 20.448 ATOLL 1422 CA PRO 145 AAAA 59.099 1.00 37.08 ATON 1423 CB PRO 19.704 145 1.00 33.65 AAAA 1424 145 20.040 -1.910 58.602 CG. PRO ATCH. AAAA 19.993 1.90 47.17 PRO -5.655 58.155 ATOH 1425 145 58.768 AAAA O -6.592 1.00 48.05 PRO 20.556 ATOH 1426 O 145 AAAA II 57.489 1.00 53.72 1427 11 LYS 146 19.979 -5.924 ATOM AAAA C 1.00 56.94 1429 CA Lïs 146 19.268 -7.229 57.295 HOTA AAAA CB 16.994 -7.050 56.647 1.00 65.44 1430 LïS 146 ATOH AAAA C 55.982 1.00 64.32 ATOH 1431 CG LYS 146 16.220 -8.232 AAAA 14.797 56.451 0.01 62.75 CD 146 -8.422 ATOI1 1432 LYS AAAA C 14.194 12.700 -9.717 55.934 0.01 62.14 CE ATO!! 1433 LYS 146 AAAA II 55.753 0.01 61.38 112 -9.610 1434 LYS 146 ATOH AAAA C 1.00 61.40 19.138 -9.138 56.446 HOTA 1436 CLYS 146

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ATOH	1444	$\mathcal{Q}(1)$	GLU	147	19.957	-7.579	52.567	1.00 73.15	AFAA C
ATOH ATOH	1445	OE1	GLU	147 147	20.164	-7.413 -7.636	51.093 50.701	1.00 85.90 1.00 95.25	AAAA C AAAA O
ATCH	1447		GLU	147	19.201	-7.053	50.376	1.00 87.47	AAAA O
ATCH	1448	ç	GLU	147	22.136	-8.470	55.541	1.00 69.40	AAAA C
HOTA	1449 1450	O 11	GLU CTS	147 148	22.983	-9.437 -7.484	55.361 56.355	1.00 72.86 1.00 66.76	AAAA C AAAA II
ATOH	1452	CA	CYS	148	23.693	-7.588	57.183	1.00 61.65	AAAA C
ATOH	1453	C	CYS	148	23.598	-8.702	58.195	1.00 65.56	AAAA C
ATOH ATOH	1454 1455	O CB	CYS	148 149	24.473	-9.524 -6.301	58.414 58.001	1.00 65.89	AAAA O AAAA C
ATOH	1456	S:5	CTS	148	24.565	-5.091	56.808	1.00 59.22	AAAA S
ATO!!	1457	:1	GLT	149	22.514	-8.713	58.977	1.00 67.88	AAAA II
ATOH ATOH	1459 1460	C.V	GLT GLT	149 149	22.387	-9.744 -9.627	60.029 61.120	1.00 62.15	AAAA C AAAA C
ATOH	14-51	Ö	GLT	149		-10.603	61.699	1.00 61.11	AAAA C
ATON	1462	;;	ASP	150	23.717	-8.426	61.596	1.00 54.88	AAAA II
ATOH ATOH	1464 1465	CB CV	ASF ASP	150 150	24.794	-8.198 -6.703	62.533 62.750	1.00 55.78	AAAA C AAAA C
ATOH	1166	CG	∧se	150	25.320	-6.034	61.410	1.00 58.50	аааа с
ATOH	1467		ASP	150	25.726	-6.796	60.480	1.00 57.73	AAAA O
ATOI:	1469 1469	C OD5	ASP ASP	150 150	25.102	-4.819 -8.854	61.363 63.855	1.00 49.69 1.00 59.36	AAAA C
ATOH	1470	ō	ASP	150	23.392	-8.820	64.377	1.00 67.48	AAAA O
ATOH	1471	11	LEU	151	25.532	-9.369	64.524	1.00 54.39	AAAA II
ATOH ATOH	1473 1474	CA CB	LEU LEU	151 151	25.314	-9.908 -11.409	65.853 65.806	1.00 52.79 1.00 58.55	AAAA C AAAA C
ATOH	1475	CG	LEU	151		-12.101	65.092	1.00 69.45	AAAA C
HOTA	1476	CDI		151		-13.421	64.489	1.00 65.26	AAAA C
ATOH	1477 1479	CD2	LEU	151 151	26.409	-12.372 -9.454	65.951 66.805	1.00 65.43 1.00 51.93	C AAAA C AAAA
ATOI!	1479	ō	LEU	151	27.598	-9.734	66.634	1.00 55.59	AAAA O
ATOM	1480	11	CYS	152	26.024	-8.773	67.849	1.00 48.62	AAAA :: AAAA C
ATOH ATOH	1482 1483	CA C	CYS CYS	152 152	26.992 27.650	-8.189 -9.325	68.740 69.493	1.00 56.73 1.00 63.58	AAAA C
ATOH	1484	ō	CYS	152		-10.405	69.575	1.00 62.40	AAAA O
ATOH	1485	CB	CYS	152	26.358	-7.144	69.657	1.00 41.99	AAAA C AAAA S
ATOH ATOH	1486 1487	SG H	CYS PRO	152 153	25.985 28.826	-5.635 -9.072	68.703 70.059	1.00 55.83 1.00 68.05	AAAA 11
ATOM	1488	CD	PRO	153	29.618	-7.838	69.903	1.00 66.66	аааа с
ATOM ATOM	1489 1490	CA CB	PRO PRO	153 153		-10.094	70.851 71.557	1.00 70.60 1.00 69.98	AAAA C AAAA C
ATOM	1491	CG	PRO	153	30.601 30.861	-9.323 -8.159	70.690	1.00 70.58	AAAA C
ATOM	1492	С	PRO	153	28.543	-10.734	71.850	1.00 69.64	AAAA C
ATOM ATOM	1493 1494	Ы О	PRO GLY	153 154		-10.075 -12.049	72.615 71.843	1.00 69.58 1.00 71.23	O AAAA II AAAA
ATOIL	1496	CA	GLY	154		-12.804	72.745	1.00 78.07	AAAA C
ATOH	1497	C	GLY	154		-13.230	72.223	1.00 81.75	AAAA C
ATOH ATOH	1498 1499	0	GLY THR	154 155		-14.318 -12.468	72.547 71.314	1.00 80.26 1.00 84.54	O AAAA II AAAA
ATON	1501	CA	THR	155		-12.683	70.828	1.00 89.38	AAAA C
ATOH:	1500	CB	THE	155		-11.661	69.705	1.00 85.07	AAAA C AAAA O
ATOH ATOH	1503 1505	CG2	THR	155 155		-10.417 -11.995	70.420 69.092	1.00 84.51 1.00 82.27	AAAA C
ATON	1506	C	THR	155		-14.094	70.353	1.00 93.69	AAAA C
ATOH	1507	O	THR	155		-14.664	70.617	1.00 95.92	AAAA O
ATOM ATOM	1508 1510	H CA	HET	156 156		-14.655 -15.973	69.617 69.024	1.00 97.23 1.00 99.05	AAAA II AAAA C
ATOH	1511	CB	HET	156		-16.190	67.896	1.00100.40	AAAA C
ATOH ATOH	1512 1513	CG SD	MET	156		~15.675	66.542	0.01 99.75 0.01 99.72	AAAA S
ATOH ATOH	1514	CE	HET	156 156		-15.857 -17.214	66.255 65.087	0.01 99.59	AAAA C
ATOM	1515	C	TET	156		-17.106	70.032	1.00100.57	AAAA C
ATOH HOTA	1516 1517	0	HET Ala	156 157		-18.122 -17.057	69.835 70.967	1.00101.64 1.00100.53	0 AAAA 11 AAAA
ATOH	1519	ÇΑ	ALA	157		-18.102	71.986	1.00101.00	AAAA C
ATOH	1520	CB	ΛLΛ	157		-18.158	72.766	1.00103.42	AAAA C
ATOH ATOH	1521 1522	C O	ALA ALA	157 157		-17.890 -18.654	72.959 72.921	1.00101.10	AAAA C AAAA O
ATOH	1523	11	GLU	158	24.984	-16.906	73.841	1.00 98.39	II AAAA
ATOH ATOH	1525 1526	CA CB	GLU GLU	158 159		~16.629 ~17.865	74.781 75.208	1.00 97.43 1.00105.93	AAAA C AAAA C
ATON	1527	CC	GLU	158		-17.546	75.560	1.00113.87	AAAA C
ATOH	1528	CD	GLU	158	21.347	-16.081	75.302	1.00119.34	AAAA 🕾
ATOH ATOH	1529 1530		GLU GLU	158 158		-15.733	74.096 76.282	1.00126.27	0 AAAA 0 AAAA
ATOH	1531	Ç.	GLU	158		-15.317 -15.915	76.202	1.00 95.00	AAAA C
HOTA	1532	O.	GLU	158	23.988	-16.117	77.145	1.00 95.89	C AAAA
ATOH	1533	CV II	SER SER	159		-14.942	75.769 76.848	1.00 93.30	II AAAA C AAAA
HOTA	1535 1536	CB	SER	159 159		-14.119 -14.805	79.848	1.00 92.28	AAAA C
ATOH	1537	O-3	SER	159	26.972	-14.427	78.886	1.00 98.08	O AAAA
ATOH	1539	C	SER	154		-12.793	76.226	1.00 91.47	AAAA C AAAA O
ATOI! ATOII	1540 1541	()	JER Pro	159 160		-12.592 -12.007	75.810 75.932	1.00 88.65	AAAA II

							10/28		
HOTA	1542	CD	ERO	160	23.789	-12.122	76.395	1.00 86.67	AAAA C
ATOH	1543	CA	PRO	160		-10.701	75.361	1.00 84.74	AAAA C
ATOH	1544	CB	PRO	160	24.125	-9.978	75.456	1.00 84.79	AAAA C
ATCH	1545	25	PRO	150		-10.671	76.515	1.00 84.63	AAAA C
ATCH	1546	Ċ	PRO	150		-10.025	76.236	1.00 79.60	AAAA C
HOTA	1547	Ö	PRO	150				1.00 79.70	AAAA O
					26.319	-9.934	77.456	1.00 74.45	N AAAA
ATON	1548	11	HET	161	27.563	-9.522	75.596		
ATOH	1550	CV	HET	161	28.530	-0.735	76.379	1.00 67.04	AAAA C
ATOH	1551	CB	MET	151	29.924	-9.178	76.038	1.00 69.93	AAAA C
ATOH	1552	CiZ	MET	151	30.118	-10.630	75.706	1.00 71.43	AAAA C
ATOH!	1553	SD	TBIT	161	30.716	-11.621	77.094	1.00 85.25	aaaa s
ATO:	1554	CE	HET	161		-10.905	78.471	1.00 69.31	AAAA C
HOTA	1555	C	HET	161	28.358	~7.234	76.189	1.00 61.76	AAAA C
ATOH	1556	Ó	MET	161	28.788	~6.443	77.034	1.00 58.60	AAAA O
ATOH	1557	Ü	CIS	162	27.581	-6.819	75.095	1.00 54.81	AAAA II
	1559	CA	Cïs	162			74.938	1.00 49.76	AAAA C
ATCH					27.493	-5.384			
ATCH	1560	č	CYS	162	26.306	-4.777	75.670	1.00 51.52	AAAA C
ATOH	1561	0	CYS	162	25.224	-5.324	75.928	1.00 53.89	AAAA O
ATOH	1562	C₿	CTS	162	27.422	-5.099	73.459	1.00 48.31	AAAA C
ATOH	1563	SG	CYS	162	28.533	-6.064	72.432	1.00 54.02	AAAA S
ATOH	1564	11	GLU	153	26.409	-3.522	76.931	1.00 46.31	AAAA !!
ATOH	1566	CA	CLU	163	25.355	-2.675	7€.538	1.00 47.19	AAAA C
ATOM	1567	CB	GLU	163	26.051	-1.412	77.027	1.00 49.95	AAAA C
ATOH	1568	CG	GLU	163	26.476	-1.364	78.465	1.00 62.30	AAAA C
			GLU			-0.135		1.00 81.67	AAAA C
ATOH	1569	CD		163	25.917		79.116		
ATOI-I	1570	OEl		163	26.470	0.473	80.016	1.00 73.22	AAAA O
NOTA	1571		GLU	163	24.646	0.208	78.721	1.00 80.93	AAAA O
ATOH	1572	C	GLU	163	24.299	-2.340	75.472	1.00 49.05	AAAA C
ATOH:	1573	O	GLU	163	24.488	-2.423	74.234	1.00 45.90	AAAA O
ATOH	1574	11	LYS	164	23.142	-1.815	75.880	1.00 47.43	AAAA I!
MOTA	1576	CA	LTS	164	22.011	-1.499	75.081	1.00 43.92	AAAA C
ATON	1577	СВ	LYS	164	20,714	-2.244	75.450	1.00 44.48	AAAA C
ATOH	1578	CG	LYS	164	20.560	-3.639	74.870	1.00 48.65	AAAA C
	1579	CD	LYS	164				1.00 49.04	AAAA C
ATOH					19.480	-4.432	75.622		
HOTA	1580	CE	LYS	164	18.409	-5.012	74.720	1.00 49.21	AAAA C
HOTA	1581	112	LYS	164	17.951	-6.372	75.134	1.00 37.67	AAAA II
ATO!·I	1585	C	LYS	164	21.615	-0.040	75.204	1.00 45.01	AAAA C
ATOH	1586	0	LYS	164	21.466	0.484	76.282	1.00 45.69	aaaa o
ATOM	1587	N	THR	165	21.333	0.570	74.034	1.00 44.94	H AAAA
ATON:	1589	CA	THR	165	20.775	1.943	74.077	1.00 43.13	AAAA C
ATOH	1590	СВ	THR	165	21.831	2.952	73.553	1.20 47.81	AAAA C
ATOI1	1591		THR	165	22.053	2.689	72.127	1.00 39.13	AAAA O
ATOH	1593		THR	165			74.362	1.00 40.40	AAAA C
					23.119	2.842			AAAA C
ATOH	1594	C	THR	165	19.532	1.881	73.189	1.00 40.92	
ATOH	1595	0	THR	165	19.346	0.897	72,414	1.00 35.91	AAAA O
ATON	1596	H	THR	166	18.781	2.985	73.173	1.00 39.18	AAAA II
ATO:	1598	CA	THR	166	17.689	2.991	72.182	1.00 42.97	AAAA C
ATOH:	1599	CB	THR	166	16.297	3.096	72.833	1.00 55.99	AAAA C
ATOH	1600	031	THR	166	15.662	4.385	72.819	1.00 41.42	O AAAA
ATOH	1602		THR	166	16.157	2.740	74.313	1.00 42.83	AAAA C
ATOH	1603	¢	THR	166	17.983	4.051	71.137	1.00 40.17	AAAA C
ATOLL	1604	ō	THR	166	18.219	5.206	71.509	1.00 35.72	AAAA O
	1605							1.00 42.21	AAAA II
ATO!!]:	ILE	167	17.912	3.725	69.866		
ATOH	1607	CA	ILE	167	18.182	4.672	68.777	1.00 41.05	AAAA C
ATOH	1608	CB	ILE	167	19.437	4.335	67.904	1.00 39.50	AAAA C
ATOH	1609	CG2	ILE	167	19.589	5.346	66.716	1.00 15.26	AAAA C
ATOI1	1610	CGI	ILE	167	20.722	4.305	68.724	1.00 36.20	аааа с
ATOM	1611	CDI	ILE	167	21.899	3.665	67.966	1.00 35.70	AAAA C
ATOH	1612	C	ILE	167	16.937	4.524	67.882	1.00 40.94	AAAA C
ATCH	1613	ō	ILE	167	16.655	3.135	67.394	1.00 35.51	AAAA O
ATOM	1614	:1	ASII	168	16.318	5.635	67.537	1.00 42.29	AAAA II
ATOH	1616	CA	ASH	168	15.112	5.633	66.713	1.00 45.22	AAAA C
ATOH	1617	CB	ASI!	168		5.253	65.292	1.00 45.69	AAAA C
					15.526			1.00 43.09	
ATOH	1618	CiG	ASII	168	14.497	5.696	64.244		AAAA C
ATOH	1619		ASH	168	14.344	5.112	63.150	1.00 41.75	AAAA O
ATOH	1620		ASH	168	13.749	6.763	64.522	1.00 48.89	AAAA II
ATO!!	1623	С	ASH	168	13.954	1.739	67.141	1.00 46.55	AAAA C
HOTA	1624	0	ASH	168	13.544	3.879	66.326	1.00 45.95	AAAA O
ATOH	1625	11	ASH	169	13.644	4.728	68.433	1.00 45.12	II AAAA
ATOH	1627	CA	ASII	169	12.717	3.759	69.007	1.00 43.67	AAAA C
ATOH	1628	СВ	ASH	169	11.315	4.106	68.540	1.00 36.84	AAAA C
HOTA	1629	CG	ASII	169	10.943	5.487	69.093	1.00 42.75	AAAA C
ATOH	1630		ASII	169	10.917	5.779	70.280	1.00 36.67	AAAA O
ATOH	1631		ASII	169	10.658	6.448	68.213	1.00 40.74	AAAA II
							68.719	1.00 44.69	AAAA C
ATON	1634	C	ASH	169	13.003	2.306			
ATOM:	1635	0	ASII	169	12.100	1.544	68.383	1.00 45.72	AAAA O
ATOI1	1636	11	GLU	170	14.226	1.907	68.862	1.00 41.64	AAAA II
ATOH:	1638	CA	GLU	170	14.655	0.513	68.850	1.00 45.88	AAAA C
ATOI-I	1639	CB	GLU	170	15.283	0.278	67.524	1.00 55.92	AAAA C
ATOH	1640	CG	GLU	170	15.028	-0.953	66.702	1.90 67.08	AAAA C
HOTA	1641	20	GLU	170	14.517	-9.605	65.294	1.00 74.56	AAAA C
	1642		GLU	170			65.049	1.00 77.75	AAAA O
ATOH					13.969	0.466		1.00 70.71	AAAA O
ATOH	1643		GUU	176	14.763	-1.437	54.389		
ATOH	1614	i.	GLU	170	15.647	0.379	70.010	1.00 47.10	AAAA C
ATOH	1645	Q	G1.0	170	16.582	1.172	70.213	1.00 49.92	AAAA O

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							,		
ATCH	1646	21	TTR	171	15.344	-9.462	70.952	1.00 49.10	FAAA II
									AAAA C
ATON:	1648	CA	TTR	171	10.231	-0.689	72.097	1.00 51.51	
ATON	1649	C3	TYR	171	15.434	-0.861	73.359	1.00 49.94	AAAA C
								1.00 48.90	AAAA C
ATOH	1650	CO.	TYR	171	16.175	-1.168	74.620		
ATOH	1651	CDI	TYR	171	16.980	-v.210	75.237	1.00 46.46	AAAA C
	1652	CEL	TYR	171	17.634	-0.469	76.407	1.20 41.17	AAAA C
ATOH									AAAA C
ATON:	1553	CDC	TYR	171	16.065	-2.429	75.194	1.00 43.62	
ATOH.	1654	CE2	TYR	171	16.734	-2.675	76.366	1.00 44.44	AAAA C
ATOH	1555	CI	713	171	17.516	-i.718	76.973	1.00 43.58	AAAA C
ATOH	1656	OH	TYR	171	18.174	-2.017	78.146	1.00 40.16	O AAAA
									AAAA C
ATOH	1658	Ç	TTR	171	17.058	~1.938	71.832	1.00 51.41	
ATON	1659	0	TYR	171	16.519	-3.024	7:.889	1.00 52.59	AAAA O
								1.00 53.70	AAAA II
ATOH	1660	1:	ASH.	172	18.331	-1.752	71.493		
ATOLL	1662	CA	ASII	172	19.203	-2.898	71.193	1.00 52.36	AAAA C
		CB	ASH	172	19.085	-3.278	69.709	1.00 55.43	алаа с
ATOH	1663								
ATOH	1664	CG	ASH	172	18.939	-1.766	69.499	1.00 61.75	AAAA C
	1665	ODI	AS::	172	19.233	-5.646	70.304	1.00 61.61	O AAAA
ATOH									AAAA II
ATOH	1666	HD2	ASI1	172	18.449	-5.048	68.295	1.00 57.97	
ATCH	1669	C	ASII	172	20.665	-2.712	71.560	1.00 43.81	AAAA C
								1.00 39.38	O AAAA O
ATC#1	1670	Q.	ASI:	172	21.163	-1.760	72.213		
ATCH.	1671	11	TTR	173	21.373	-3.796	71.393	1.00 43.20	II AAAA II
							71.699	1.00 44.76	AAAA C
ATOH	1573	CV	TYR	173	22.794	-3.929			
ATCH	1674	CB	TYR	173	23.223	-5.374	71.514	1.00 41.66	AAAA C
	1675	CG	TYR	173	22.759	-6.274	72.630	1.00 45.18	AAAA C
ATOH									
ATOLL	1576	CDI	TTR	173	21.931	-7.316	72.237	1.00 46.48	AAAA C
	1677	CEI	T∵R	173	21.438	-9.181	73.193	1.00 51.36	аааа с
ATOH.									AAAA C
ATOH	1678	CD2	TTR	173	23.081	-6.132	73.978	1.00 44.86	
ATON	1679	CE2	TYR	173	22.583	-7.016	74.916	1.00 46.92	AAAA C
									AAAA C
ATOH	1680	CD	TYR	173	21.757	-8.038	74.535	1.00 50.33	
ATON:	1591	OH	TYR	173	21.171	-9.006	75.320	1.00 50.64	AAAA O
							70.762	1.00 46.94	AAAA C
ATO!!	1683	Ç	TYR	173	23.673	-3.000			
ATOH	1684	Ó	TYR	173	23.389	-2.983	69.567	1.00 49.76	AAAA O
		11		174	24.579	-2.318	71.366	1.00 47.79	II AAAA II
ATOH	1685		ARG						
ATOH	1687	CA	ARG	174	25.517	-1.496	70.577	1.00 49.13	AAAA C
	1688	CB	AR-3	174	25.537	-0.132	71.233	1.00 44.32	AAAA C
ATOH									
ATOH	1689	CG	ARG	174	24.210	0.623	71.234	1.00 48.14	aaaa c
ATOM:	1690	CD	ARG	174	23.372	0.344	70.003	1.00 51.47	AAAA C
									II AAAA
ATOH	1691	HE	AR-3	174	21.974	0.760	70.039	1.00 48.35	
ATOH	1693	CC	ARG	174	21.144	0.570	69.017	1.00 48.23	AAAA C
								1.00 38.96	AAAA N
ATOH	1694	UHI	AKS	174	21.477	0.022	67.864		
ATC:	1697	HH2	ARG	174	19.909	1.022	69.197	1.00 54.65	II AAAA
							70.461	1.00 45.98	AAAA C
ATOH	1700	C	ARG	174	26.921	-2.094			
ATOM	1701	0	AR/G	174	27.548	-2.557	71.406	1.00 44.97	AAAA O
	1702	11	CYS	175	27.493	-2.183	69.294	1.00 46.21	aaaa ii
HOTA									AAAA C
ATOH	1704	CA	CYS	175	28.787	-2.758	68.997	1.00 45.60	
ATOH	1795	С	CYS	175	29.407	-2.395	67.665	1.00 46.23	AAAA C
									AAAA O
ATO!!	1706	0	CYS	175	28.755	-2.018	66.665	1.00 44.78	
ATOH	1707	CB	CYS	175	28.576	-4.253	69.167	1.00 35.62	AAAA C
								1.00 51.92	AAAA S
ATOH	1708	SG	C.1.2	175	27.812	-5.191	67.827		
ATOH	1709	11	TEF	176	30.754	-2.517	67.58£	1.00 48.16	AAAA II
								1.00 42.48	AAAA C
ATON	1711	CA	TRP	176	31.430	-2.091	66.325		
ATC(1	1712	CB	TRP	176	32.769	-1.409	56.564	1.00 36.38	AAAA C
							67.203	1.00 25.56	AAAA C
ATOH	1713	CG	TRP	176	32.689	-0.069			
ATOH	1714	CD2	TRP	176	32.588	1.186	66.480	1.00 23.71	AAAA C
		CE2	TRP	176	32.559	2.217	67.422	1.00 30.40	AAAA C
ATCH	1715								AAAA C
ATOH	1716	CE3	TRP	176	32.535	1.520	65.141	1.00 24.31	
ATOH	1717	CD1	TRE	176	32.730	0.257	68.525	1.00 28.37	AAAA C
ATOH	1718	HEL	TRE	176	32.636	1.636	68.67₽	1.00 37.21	AAAA II
ATOH:	1720	00.2	TRP	176	32.441	3.565	67.088	1.00 28.51	AAAA C
							64.783	1.00 22.23	AAAA C
ATOH.	1721		TP.F	176	32.447	2.822			
ATOM	1722	CH2	TRP	176	32.406	3.817	65.745	1.00 22.51	AAAA C
		C	TRF	176	31.631	-3.268	65.108	1.00 39.30	AAAA C
ATOH	1723							1.00 39.15	AAAA O
ATOH	1724	0	TRP	176	31.703	-3.121	64.199		
ATOI1	1725	11	THR	177	31.682	-4.460	66.005	1.00 41.33	AAAA II
								1.00 49.28	AAAA C
ATOH:	1727	CA	THR	177	31.964	-5.644	65.161		
ATOH	1728	CB	THR	177	33.480	-6.062	65.162	1.00 43.66	AAAA C
								1.00 47.85	AAAA O
ATOH	1729	OG I	THR	177	34.309	-5.025	64.613		
ATOH	1731	CGC	THR	177	33.676	-7.271	64.283	1.00 58.51	AAAA C
								1.00 48.76	AAAA C
ATOH	1732	C	THR	177	31.290	-6.814	65.859		
ATOH	1733	Ö	THR	177	30.982	-6.539	67.001	1.00 51.53	O AAAA
								1.00 51.96	II AAAA II
ATOH	1734	13	THR	178	31.269	-3.000	45.331		
ATON	1736	CA	THR	178	30.924	-9.236	65.946	1.00 58.95	AAAA C
							65.092	1.00 66.55	AAAA C
ATOH	1737	CB	THE	179		-10.500			
ATOH	1738	001	THR	178	31.505	-10.066	63.73-	1.00 75.70	AAAA O
							65.148	1.00 74.23	AAAA C
ATOH	1740	000		178		-11.489			
ATOH	1741	Ċ	THR	178	31.714	-9.539	67.213	1.00 60.25	AAAA C
				178		-10.002	68.135	1.00 66.05	AAAA O
ATOH	1742	0	THR						
ATO11	1743	11	ASH	179	32.977	-9.130	67.253	1.00 57.56	aaaa ii
ATOH	1745	CA	ASII	179	33.793	-9.392	68.445	1.00 53.39	AAAA C
									AAAA C
HOTA	1746	CB	ASH	179	35.130	-10.024	68.068	1.00 48.46	
ATOH	1747	ÇĞ	ASU	170		-11.218	67.123	1.00 56.25	AAAA C
									AAAA O
ATOH	1:48	ODI	ASH	179		-12.291	47.5£3	1.00 51.38	
ATOH	1749	1102		170		-11.063	65.863	1.30 48.10	H AAAA II
	5 43						69.285	50.78	AAAA C
						0.100			
ATOH	1752	C	A.S: i	1.16	31.045	-8.120			
ATOH ATOH	1752 1753	S O	A311	179	31.556	-8.377	70.420	1.00 57.97	AAA O

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HOTA	1754	11	AR J	130	33.626	-7.022	68.913	1.00 47.06	AAAA II
ATCH	1756	CA	ARG	190	33.908	-5.820	69.691	1.00 48.25 1.00 49.72	AAAA C AAAA C
ATO:	1757 1758	CB CG	ARG ARG	180 189	34.925 36.324	-4.962 -5.501	69.074 69.285	1.00 49.72	AAAA C
ATOH	1759	Ċΰ	ARG	190	37.288	-4.948	68.279	1.00 70.83	AAAA C
ATCH	1760	HE	ARG	180	38.569	-5.605	68.203	1.00 76.18	II AAAA II
HOTA	1762	CC	ARG	180	39.298	-5.895	69.276	1.00 76.59	AAAA C
ATOH	1763		ARG	186	38.877	-5.608	70.498	1.00 80.82	AAAA ::
ATOH	1766 1769	C DB2	ARG ARG	180 180	40.474 32.530	-6.478 -4.977	69.180 69.821	1.00 79.33	II AAAA II AAAA C
ATOH:	1770	ō	ARG	180	31.862	-4.476	68.905	1.00 46.99	AAAA O
ATO:	1771	:1	CYS	131	32.230	-4.728	71.063	1.00 44.80	AAAA II
HOTA	1773	CA	CTS	181	31.199	-3.924	71.619	1.00 45.20	AAAA C
ATOH	1774	C	CAR	181	31.646	-2.463	71.692	1.00 44.50	AAAA C
ATCH	1775	O Cr.	CYS	181	32.835	-2.227	71.724	1.00 47.09	AAAA C AAAA C
ATCH ATOM	1776 1777	CB SG	CYS	191 191	30.940 30.363	-4.282 -5.944	73.110 73.316	1.00 56.08	AAAA S
ATOH	1778	11	SLII	182	30.659	-1.600	71.690	1.00 39.30	AAAA II
ATON	1780	CA	GLII	182	30.949	-0.177	71.690	1.00 43.43	лааа с
ATOH	1791	CB	GLI:	192	29.749	0.619	71.196	1.00 23.99	AAAA C
ATO!!	1782	CG	GLI	182	29.809	2.085	71.435	1.00 28.57	AAAA C
ATOH ATOH	1783 1784	CD	GLII	182 182	28.757 27.898	2.867	70.733 70.033	1.00 29.35 1.00 38.55	AAAA C AAAA O
ATOH	1785	HE2	GLN	182	28.857	4.164	70.912	1.00 28.14	II AAAA
ATCH1	1798	Ċ	GLII	182	31.218	0.089	73.162	1.00 46.07	AAAA C
ATCH	1789	0	GLII	182	30.458	-0.327	74.041	1.00 47.01	дада с
ATOH	1790	II.	LYS	183	32.213	0.866	73.524	1.00 46.98	AAAA II
ATOH	1792	CA	1.73	193	32.479	1.064	74.934 75.185	1.00 45.26 1.00 48.68	AAAA C AAAA C
ATOH	1793 1794	CB CS	LYS LYS	183 183	33.966 34.865	1.275 0.267	74.482	1.00 47.95	AAAA C
ATOH	1795	CD	LTS	193	36.337	0.734	74.523	1.00 48.06	AAAA C
HOTA	1796	CE	LïS	183	37.178	-0.208	73.684	1.00 46.78	AAAA C
ATO!!	1797	110	LYS	183	38.499	-0.654	74.158	1.00 44.00	AAAA N
ATOH	1801	Č	LT3	183	31.659	2.205	75.477	1.00 48.13	AAAA C
ATOH ATCH	1802 1803	0	LYS	183 184	31.679 31.165	3.305 2.014	74.946 76.698	1.00 48.84 1.00 52.59	O AAAA 11 AAAA
ATOH	1805	CΑ	HET	184	30.388	3.041	77.413	1.00 53.22	AAAA C
ATON	1806	СВ	HET	184	28.927	2.613	77.537	1.00 54.27	AAAA C
I-1OTA	1897	CG	HET	184	27.855	2.955	76.536	1.00 56.16	AAAA C
ATOH	1908	3D	HET	184	26.911	1.601	75.912	1.00 57.56	AAAA S AAAA C
ATOH ATOH	1809 1810	CE CE	HET	184 184	26.738 31.951	1.855 3.200	74.171 78.770	1.00 46.57 1.00 50.55	AAAA C
ATOI!	1811	õ	HET	184	31.779	2.292	79.116	1.00 48.82	AAAA O
ATON	1812	11	CYS	185	30.796	4.195	79.565	1.00 53.97	AAAA I
ATO! 1	1814	CA	CYS	185	31.342	4.365	80.892	1.00 58.63	AAAA C
ATOM	1815	Č	CYS	185	30.297	4.320	81.989	1.00 65.16 1.00 65.87	AAAA C AAAA O
ATOH ATOH	1816 1817	O CB	CYS	185 185	29.133 31.965	4.649 5.772	81.761 81.000	1.00 60.37	AAAA C
HOTA	1818	35	CYS	185	33.623	5.771	80.312	1.00 60.09	AAAA S
ATCI:	1819	11	PRO	186	30.688	3.978	83.206	1.00 69.41	AAAA !!
ATOH	1820	CD	PRO	196	32.066	3.777	83.702	1.00 71.11	AAAA C
ATCH	1821	CA	FRO	186	29.717	3.933	84.304	1.00 69.11	AAAA C
HOTA	1922	CB CG	PRO ERO	196 186	30.523 31.910	3.487 3.920	85.503 85.198	1.00 68.03 1.00 71.02	C AAAA C AAAA
ATOH	1824	C	PRO	186	29.120	5.320	84.431	1.00 69.47	AAAA C
ATCH!	1925	ō	PRO	186	29.820	6.345	84.507	1.00 65.93	O AAAA
ATOH	1826	11	SER	187	27.801	5.367	94.546	1.00 68.78	II AAAA
ATCH	1828	CA	SER	187	27.050	6.592	84.750	1.00 69.29	AAAA C
ATOH ATOH	1829 1930	03 03	SER SER	187 187	25.594 25.474	6.287 4.935	85.129 85.566	1.00 78.29 1.00 91.78	C AAAA O AAAA
ATON	1832	ç	SER	187	27.630	7.476	85.836	1.00 67.19	AAAA C
HOTA	1833	ō	SER	197	27.606	8.708	85.803	1.00 63.98	aaaa o
HOTA	1834	11	THR	188	28.108	6.853	86.908	1.00 68.20	AAAA 11
ATO: 1	1836	CA	THR	188	28.870	7.507	87.963	1.00 68.39	AAAA C
ATOH ATOH	1837 1838	CB OG1	THR	1 8 8 1 8 8	29.805 28.943	6.459 5.365	88.618 89.016	1.00 73.84	C AAAA O AAAA
ATCH	1840		THE	188	30.605	7.048	89.759	1.00 73.71	AAAA C
ATON	1841	c	THR	188	29.802	8.583	97.429	1.00 67.52	AAAA C
ATOH	1842	0	THR	188	29.843	9.739	87.834	1.00 68.30	AAAA O
ATOH	1843	11	CAS	149	30.643	8.247	96.446	1.00 63.89	AAAA II
ATOH	1845	CA	CYS	189	31.583	9.116	85.917 85.195	1.00 57.29 1.00 57.70	D AAAA D AAAA
ATOH	1946 1847	Ö C	CYS	189 189	30.951 31.648	10.331	85.017	1.00 57.56	AAAA O
ATOII	1948	СB	CYS	189	32.416	8.372	84.769	1.00 58.67	AAAA C
ATOH	1849	SG	CYS	189	33.347	7.001	85.535	1.00 53.46	AAAA S
ATON	1850	11	GLY	190	29.689	10.322	84.806	1.00 56.91	II AAAA
ATOH	1852	CA	GLY	190	29.038	11.521	84.323 82.886	1.00 57.28 1.00 59.62	AAAA C AAAA C
ATOH ATOH	1853 1854	C C	GLY	190 190	29.444 29.609	11.834 10.932	82.082	1.00 57.91	AAAA O
ATON	1855	11	LYS	191	29.842	13.052	82.524	1.00 62.78	II AAAA
ATOH	1857	CA	LYS	191	30.359	13.520	81.364	1.00 67.72	AAAA C
ATOH	1958	CB	Lis	191	30.058	15.035	81.214	1.00 72.76	AAAA C
ATOH	1859	03 25	LYS	191	28.568	15.288	81.002	1.00 84.69	AAA C
ATOH ATOH	1950 1851	CE	LYS LYS	191	28.207 26.713	16.733 16.806	80.723 80.471	1.00 90.15	T AAAA T T AAAA
ALOH!	1031	٠٠	0	171	20.713	10.000			,

							19/58		
ATON	1962	nc.	Lys	191	26.368	16.182	79.152	1.00 97.62	AAAA ::
ATOH ATOH	1866 1867	c o	LYS	191 191	31.868 32.486	13.299	81.270 80.415	1.00 70.13	7 AAAA 0 AAAA
HOTA	1968	11	ARG	192	32.488	12.441	82.079	1.00 66.29	AAAA ::
HOTA HOTA	1970	CA CB	ARG ARG	192 192	33.885 34.505	12.171	92.044	1.00 59.95 1.00 66.58	AAAA C AAAA C
ATOH	1972	CG	ARG	192	34.505	13.400	83.432 84.131	1.00 66.56	AAAA C
ATOH	1873	CD	ARG	192	34.386	13.330	85.625	1.00 73.91	AAAA C
HOTA	1974 1976	CC	ARG	192 192	35.622 35.968	13.280	86.377 87.330	1.90 85.74 1.90 90.67	II AAAA C
ATOH	1977	NH1	ARG	102	35.026	11.486	87.600	1.00 88.49	AAAA II
HOTA	1880	UH2	ARG	192	37.162	12.463	87.950	1.00 72.95	II AAAA
ATOH ATOH	1883 1884	c.	ARG	192 192	34.221 33.336	10.851	91.337 81.176	1.00 58.83 1.00 55.13	2 AAAA 0 AAAA
ATOH	1885	14	ALA	193	35.521	10.795	80.968	1.00 50.19	AAAA ::
ATOH ATOH	1987 1988	CA CB	ALA ALA	193 193	35.962 37.167	9.557 9.921	80.355 79.541	1.00 46.24 1.00 45.15	AAAA C AAAA C
ATCI-I	1889	C	ALA	193	36.221	8.525	81.451	1.00 48.97	AAAA C
ATOH	1890		ALA	193	36.220	8.908	82.616	1.00 44.80	AAAA O
ATOH ATOH	1891 1893	CA	CTS	194 194	36.836 36.514	7.304 6.302	91.065 82.043	1.00 50.30 1.00 57.50	AAAA :: AAAA C
HOTA	1994	C	CYS	194	37.834	5.304	81.448	1.00 61.25	AAAA C
HOTA	1895 1896	O CB	CYS	194 194	37.952 35.510	5.291 5.741	80.216 82.504	1.00 61.52 1.00 57.96	AAAA C AAAA C
ATOH	1897	SG	CYS	194	34.785	4.524	81.402	1.00 54.49	AAAA S
ATOI1	1998	11	THR	195	38.422	4.499	82.311	1.00 58.51	AAAA 1:
ATOH HOTA	1900 1901	CB	THR	195 195	39.462 40.237	3.584 3.142	81.913 83.188	1.00 57.42 1.00 65.73	AAAA C AAAA I
HOTA	1902	001	THR	195	10.288	4.248	84.091	1.00 70.15	AAAA O
ATOH ATOH	1904	002 0	THR	195 195	41.684	2.864	82.745	1.00 77.91 1.00 54.59	AAAA C AAAA C
ATOI:	1906	ō	THR	195	38.857 37.633	2.404 2.315	81.226 81.319	1.00 58.75	AAAA O
ATON	1907	11	GLU	196	39.610	1.408	80.882	1.00 55.95	AAAA II
ATOH ATOH	1910	CA CB	GLU GLU	196 196	39.139 40.395	0.145 -0.612	80.364 79.914	1.00 60.07 1.00 68.06	AAAA C AAAA C
ATOH	1911	CG	GLU	196	40.479	-1.146	78.526	1.00 73.96	AAAA C
ATOH	1912	CD	GLU	196	39.235	-0.983	77.670	1.00 83.08	AAAA C
ATOH ATOH	1913 1914	OE1 OE2	GLU GLU	196 196	38.356 39.060	-1.884 0.041	77.687 76.939	1.00 81.19 1.00 82.10	AAAA O AAAA C
HOTA	1915	С	GLU	196	38.382	-0.579	81.467	1.00 63.91	AAAA C
HOTA HOTA	1916 1917	0	GLU ASII	196 197	37.690	-1.537	81.159	1.00 63.51 1.00 67.40	AAAA O N AAAA N
ATON	1919	CA	ASII	197	38.666 38.025	-0.312 -0.947	82.739 83.886	1.00 69.21	AAAA C
ATON	1920	CB	ASII	197	39.021	-i.394	84.966	1.00 68.49	AAAA C
ATOII ATOII	1921 1922	CG OD1	ASII ASII	197 197	39.722 40.364	-2.692 -3.273	84.672 85.551	0.01 69.09 0.01 69.04	AAAA C AAAA O
ATOH	1923		ASH	197	39.622	-3.183	83.443	0.01 68.97	AAAA II
ATOH ATOH	1926 1927	0	ASH ASH	197 197	37.033	0.043	84.486 85.664	1.00 69.01 1.00 68.24	AAAA C AAAA O
ATC: I	1928	11	ASH	198	36.845 36.384	0.281 0.795	83.607	1.00 69.91	AAAA II
ATOH	1930	CA	ASII	198	35.356	1.734	84.048	1.00 68.48	AAAA C
ATOH ATOH	1931 1932	CB CG	ASI!	198 198	34.120 33.806	0.880	84.373 83.102	1.00 60.12 1.00 69.29	AAAA C AAAA C
ATOH	1933		ASH	198	33.475	0.654	82.054	1.00 73.20	AAAA O
ATOH ATOH	1934		ASH	198	33.980	-1.206	83.268	1.00 65.34	AAAA :!
ATOH HOTA	1937	0	IIZA	198 198	35.784 34.992	2.563 2.827	85.228 86.117	1.00 64.01 1.00 64.20	AAAA C AAAA O
HOTA	1939	11	GLU	199	36.955	3.164	85.157	1.00 64.75	AAAA II
HOTA HOTA	$\frac{1941}{1942}$	CA CB	GLU	199	37.342 38.702	4.054 3.624	86.255 86.744	1.00 64.61	AAAA C AAAA C
ATON	1943	CG	GLU	199	38.846	3.717	88.233	1.00 77.15	AAAA C
ATOH	1944	CD	GLU	199	39.579	2.532	88.832	1.00 80.24	AAAA C
ATOH ATOH	1945 1946		GLU	199 199	39.385 40.282	2.406 1.821	90.066 88.079	1.00 81.65 1.00 77.94	AAAA O AAAA O
ATOH	1947	C	GLU	199	37.314	5.463	85.690	1.00 62.92	aaaa c
ATCII ATOII	1948 1949	N O	GLU	199 200	37.928 36.605	5.676 6.393	84.632 86.313	1.00 63.62 1.00 56.16	O AAAA ii AAAA
ATOH	1951	CA	CYS	200	36.600	7.721	85.740	1.00 55.11	AAAA C
ATOH	1952	C	CYS	200	37.978	8.315	85.521	1.00 57.77	AAAA C
ATOH ATOH	1953 1954	O CB	CYS	200 200	38.884 35.824	8.058 8.664	86.300 86.648	1.00 63.79 1.00 52.70	AAAA O AAAA C
ATCH	1955	SG	CYS	200	34.196	8.100	87.098	1.00 55.85	AAAA S
ATOH ATOH	1956	[]	CYS	201	38.124	9.192	84.540	1.00 54.50	I AAAA
ATOH ATOH	1958 1959	CV CV	CYS	201 201	39.338 39.236	9.889 11.287	84.202 84.786	1.00 48.19	AAAA C AAAA C
HOTA	1960	0	CYS	201	38.165	11.704	85.166	1.00 \$4.32	AAAA O
ATOH ATOH	1961 1962	CB SG	CYS	201 201	39.590 39.611	10.070	82.695 81.747	1.00 40.90 1.00 51.42	AAAA C AAAA S
ATOM	1963	11	HIS	202	40.254 40.254	8.597 12.075	84.675	1.00 39.12	AAAA II
ATOI I	1965	CA	HIS	202	40.290	13.461	85.128	1.00 41.55	AAAA C
atoh Atoh	1966 1967	C C	HIS	202 202	39.284 39.176	14.184	84.289 83.103	1.00 46.59 1.00 51.64	AAAA C AAAA O
ATON	1968	CB	HIS	102	41.712	13.851 13.952	91.81.	1.00 45.20	AAAA 1
ATOLL	1969	CG HD1	HIS	202	41.996	15.330	05.267	1.00 39.71	AAAA C
ATO!	1970	HD1	H . S	200	41.501	16.404	84.550	1.00 51.32	AAAA ::

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ATOH	1971	CEI	210	202	41.987	17.528	85.173	1.00 47.62	AAAA C
ATOH	1972	255		202	12.665	15.813	86.340	1.00 39.59	AAAA C
				202	42.563	-		1.00 43.48	AAAA II
ATOH	1973		HIS	203		17.207	86.259	1.00 47.74	AAAA II
ATCI:	1975	:11	PRO	203	38.738 38.758	15.293	84.711	1.00 46.97	ÀAAA C
ATOH	1976 1977	CV CD	FRO PRO	203	37.780	15.840 15.987	86.082 83.879	1.00 46.44	AAAA C
ATON ATON	1979	CB	PRO	203	37.248	17.107	84.742	1.00 39.47	AAAA C
ATCII	1279	CC	PRO	203	38.131	17.219	85.910	1.00 43.37	AAAA C
ATOH ATOH	1980	<u>ن</u>	PRO	203	38.440	16.519	82.607	1.00 53.27	AAAA C
	1981	Ö	FRO	203	37.698	17.045	81.731	1.00 53.16	AAAA O
ATCH ATCH	1982	11	GLU	204	39.792	16.535	82.561	1.00 50.34	AAAA II
ATCH	1984	CA	GLU	204	40.439	17.139	91.381	1.00 50.52	AAAA S
ATOH	1985	СВ	GLU	204	41.727	17.891	81.804	1.00 48.58	AAAA C
ATCH	1996	CG .	GLU	204	41.397	19.251	92.397	1.00 43.74	AAAA C
ATON	1987	CD	GLU	204	10.778	20.282	81.501	1.00 55.26	AAAA C
ATOH	1988	OF.1		204	40.766	20.344	80.249	1.00 64.04	AAAA O
ATOM	1989		GLU	204	10.226	21.198	82.141	1.00 57.66	AAAA O
ATOH	1990	Ç	GLU	204	40.718	16.084	80.319	1.00 45.71	AAAA C
ATOH	1991	ن	GLU	204	11.238	16.405	79.251	1.00 46.56	AAAA O
ATOH	1992	11	CYS	205	40.612	14.830	80.735	1.00 42.05	AAAA II
ATOH	1994	CA	CTS	205	40.997	13.764	79.838	1.00 45.81	aaaa c
ATOI1	1995	C	CïS	205	39.892	13.628	78.819	1.00 49.20	AAAA C
ATOH	1996	0	CYS	205	38.746	13.920	79.133	1.00 50.34	AAAA O
ATON	1997	CB	CYS	205	41.288	12.491	80.572	1.00 51.55	AAAA C
ATOH	1998	SG	CYS	205	42.923	12.246	81.251	1.00 52.89	AAAA S
ATOH	1999	11	LEU	206	40.232	13.579	77.520	1.00 49.88	II AAAA
ATOH1	2001	CA	LEU	206	39.169	13.446	76.533	1.00 41.49	AAAA C
ATOH	2002	CB	LEU	206	39.266	14.505	75.462	1.00 48.66	AAAA C
ATOH	2003	CG	LEU	206	38.274	14.365	74.305	1.00 47.45	AAAA C
HOTA	2004	CDI	LEU	206	36.879	14.243	74.895	1.00 45.79	aaaa c
ATOH	2005	CD2	LEU	266	38.331	15.599	73.420	1.00 50.71	алаа с
ATOLL	2006	C	LEU	206	39.310	12.109	75.912	1.00 38.44	AAAA C
MOTA	2007	O	LEU	206	40.400	11.568	75.813	1.00 36.59	AAAA O
HOTA	2008	i-i	GLY.	207	38.264	11.359	75.681	1.00 42.41	AAAA №
ATON	2010	CA	GLY	207	38.403	10.098	74.978	1.00 40.57	AAAA C
ATOH	2011	C	GLY	207	38.466	9.061	76.058	1.00 47.15	AAAA C
ATCI I	2012	0	GLY	207	37.668	8.102	76.057	1.00 45.04	AAAA O
ATOH	2013	F1	SER	208	39.622	9.079	76.760	1.00 50.36	AAAA II
MOTA	2015	CA	SER	208	39.832	7.898	77.660	1.00 48.27	AAAA C
ATOH	2016	CB	SER	208	39.909	6.631	76.787	1.00 35.77	AAAA C
HOTA	2017	OG	SER	208	40.600	5.597	77.461	1.00 61.34	AAAA O
ATCI-I	2019	С	SER	208	41.144	8.068	78.377	1.00 49.17	AAAA C
ATOH	2020	O	SER	208	41.781	9.084	78.163	1.00 48.24	AAAA O
HOTA	2021	11	CYS	209	41.599	7.123	79.189	1.00 52.04	AAAA II
ATOH	2023	CA	CYS	209	42.824	7.307	79.964	1.00 55.98	AAAA C
ATOH	2024	С	CYS	209	43.453	6.035	80.484	1.00 57.41	AAAA C
ATOH	2025	0	CYS	209	42.862	4.963	80.423	1.00 58.33	AAAA O
ATOH	2026	CB	CYS	209	12.629	8.258	81.146	1.00 52.51	AAAA C
PIOTA	2027	SG	CYS	209	41.380	7.602	82.261	1.00 58.22	AAAA :
ATOH	2028	11	SER	210	44.734	6.145	80.883	1.00 59.37	AAAA C
ATON	2030	CA	SER	210	15.506	4.950	91.318	1.00 58.10 1.00 55.07	AAAA C
ATOU	2031	CB	SER	210	47.022	5.083	91.105	1.00 64.49	AAAA O
ATOH	2032	OG	SER	210	47.546	6.204	81.818	1.00 56.34	AAAA C
ATON	2034	C	SER	210	45.331 45.529	4.713 3.614	82.826 83.326	1.00 54.42	AAAA O
ATON	2035	0	SER	210			83.548	1.00 52.79	AAAA II
ATOH	2036	11	ALA	211	45.105	5.806	85.004	1.00 56.60	AAAA C
ATOH	2038	CA	ALA	211	44.980	5.684	85.649	1.00 63.41	AAAA C
ATOH	2039	G CB	ALA ALA	211	46.333	5.926 6.747	85.395	1.00 56.58	AAAA C
ATOH			ALA	211	43.957	7.792	84.711	1.00 50.78	AAAA O
HOTA	2041	O H	PRO	212	43.117	6.416	86.359	1.00 55.93	AAAA II
ATOLI	2042	CD	PRO	212	43.042	5.166	87.115	1.00 55.86	AAAA C
ATOH	2044	CA	PRO	212	41.951	7.257	86.575	1.00 55.50	AAAA C
ATOH	2045	CB	FRO	212	41.104	5.470	27.556	1.00 59.65	AAAA C
ATOH	2046	CG	PRO	212	42.021	5.483	88.175	1.00 51.56	AAAA C
HOTA	2047	c	PRO	212	42.409	8.535	87.177	1.00 53.64	AAAA C
ATOH	2048	ō	FRO	212	43.611	8.725	87.393	1.00 57.48	AAAA O
ATON	2049	11	ALA	213	41.537	9.492	87.347	1.00 53.87	AAAA II
ATOH	2051	CA	ALA	213	41.912	10.710	88.057	1.00 59.41	AAAA C
ATOH	2052	CB	ALA	213	41.783	10.255	39.541	1.00 66.40	AAAA 🤈
ATOH	2053	Ġ.	ALA	213	43.289	11.300	87.907	1.00 61.40	AAAA C
ATCH	2954	ō	ALA	213	43.729	12.202	88.652	1.00 60.03	WWW O
HOTA	2055	11	ASH	214	44.068	10.999	86.899	1.00 64.80	AAAA !!
ATOH	2057	CA	ASII	214	45.366	11.551	86.596	1.00 63.36	AAAA C
ATOH	2063	C	ASII	214	45.300	12.284	85.251	1.90 61.56	AAAA C
HOTA	2064	O	ASN	214	45.198	11.794	84.117	1.00 58.38	AAAA O
ATOH	2058	CB	112A	214	46.336	10.379	86.608	1.00 67.32	AAAA ©
ATOH	2059	ÇG	IIZA	214	47.697	10.896	86.362	1.00 75.48	AAAA C
ATOH	2060		ASH	214	48.254	11.105	65.302	1.00 83.64	AAAA O
ATOH	2061	IID2	ASII	214	48.513	11.170	87.127	1.00 90.05	AAAA II
ATOH	2065	11	ASP	215	45.666	13.565	85.305	1.00 59.78	II AAAA
ATOH	2067	CA	ASP	215	45.618	14.432	8:.113	1.00 56.47	AAAA C
ATOH	2068	CB	ASP	215	45.430	15.926	84.446	1.00 40.19	AAAA C
ATOH	5069	CG	ASP	215	16.671	16.543	84.986	1.00 56.36	AAAA C
ATCH	2070	ODI	AGE	215	46.590	17.699	85.473	1.00 56.17	O AAAA

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ATOH	2 - 71	002		215	17.766	15.926	94.941	1.00 60.11	****
ATON ATON	2072 2073	c c	ASP ASP	215 215	46.998 46.819	14.315	93.221 82.322	1.20 53.78 1.00 53.58	AAAA C AAAA O
ATOH	2074	::	THR	216	47.719	13.425	83.511	1.00 50.87	AAAA !I
ATON	2076	CA	THR	216	48.883	13.114	82.734	1.00 45.76	2 AAAA
ATOH	2077 2078	CB OGI	THR	216	50.201 50.403	13.176	83.529	1.00 53 .46 1.00 45.14	AAAA C AAAA O
ATOH ATOH	2080	032		216 216	50.436	14.314	84.335 84.518	1.00 41.38	AAAA C
ATOH	2081	4	THR	216	48.681	11.712	82.159	1.00 48.34	AAAA C
ATON	2082	()	THR	216	49.596	11.282	81.444	1.00 47.49	O AAAA 11 AAAA
ATOH ATOH	2083 2085	II GA	ALA ALA	217 217	47.559 47.259	9.760	82.476 81.845	1.60 49.65 1.60 51.83	AAAA C
ATCH	2086	78	ALA	217	46.908	9.775	82.943	1.00 52.62	AAAA C
ATCH	2087	, -	ALA	217	46.207	9.747	80.709	1.00 50.60	AAAA C AAAA O
ATOH ATOH	2088 2089	() 1:	ALA CVS	217 218	45.775 45.744	0.632 10.905	80.335 80.226	1.00 49.13 1.00 43.56	AAAA II
ATOH	2091	CA.	CYS	219	44.802	11.030	79.157	1.00 48.09	AAAA C
ATOH	2092	Ç	CYS	218	45.166	19.331	77.869	1.00 47.06	AAAA C
ATOH	2093 2094	OB OB	CYS	218 219	46.300 44.536	9.967 12.501	77.642 78.775	1.00 55.57 1.00 51.54	AAAA C AAAA C
HOTA	2095	56	CX3	218	44.256	13.494	80.302	1.00 56.98	AAAA S
HOTA	2096	11	VAL	219	44.226	10.085	75.978	1.00 43.40	AAAA H
HOTA	2098	CA	VAL	219	44.575	9.547	75.654	1.00 35.22	AAAA C AAAA C
HOTA	2099 2100	CB	VAL	219 219	43.693 43.952	8.427 7.873	75.242 73.886	1.00 32.26 1.00 36.19	AAAA C
ATON	2101	CG2		219	43.811	7.144	76.071	1.00 45.51	AAAA C
ATOH	2102	Ç	VAL	219	14.453	19.750	74.735	1.00 32.06	AAAA C
ATOH	2103	0	VAL	219 226	45.303 43.729	10.897	73.874 75.187	1.00 42.27	0 AAAA 11 AAAA
ATOM	2104 2106	DA DA	ALA	220	43.728	11.753	74.385	1.00 27.09	AAAA C
ATOH	2107	CO	ALA	220	42.536	12.919	73.331	1.00 28.42	AAAA C
ATOH	2108	C	ALA	220	43.292	14.071	75.390	1.00 29.21	AAAA C
ATOM	2109	C !!	ALA	220 221	42.846 43.285	13.604 15.334	76.455 75.058	1.00 37.88 1.00 30.27	AAAA O AAAA II
ATOM ATOM	2110	CA	CYS	221	42.753	16.382	75.875	1.00 35.55	AAAA C
ATOH	2113	C	CYS	221	41.460	17.055	75.452	1.00 47.06	AAAA C
ATOH	2114	0	CYS	221	41.265	17.598	74.368	1.00 49.57	AAAA O AAAA C
ATOH ATOH	2115	CB SG	CYS	221	43.904 45.494	17.478 16.935	76.063 76.538	1.00 47.45 1.00 47.06	AAAA S
ATOM	2117	11	ARG	222	40.503	17.133	76.396	1.00 51.47	AAAA II
ATCH	2119	CA	ARG	222	39.281	17.906	76.338	1.00 51.86	AAAA C
ATOH	2120	CB	ARG	222	38.647	18.074	77.712 77.854	1.00 54.53 1.00 45.56	AAAA C AAAA C
HOTA	2121	CD CG	ARG ARG	222 222	37.314 36.538	18.687 18.338	79.087	1.00 54.45	AAAA C
ATOI1	2123	IIE	ARG	222	36.272	16.947	79.269	1.00 65.53	H AAAA
MOTA	2125	CI	A.R.G	222	35.534	16.080	78.617	1.00 67.60	AAAA C
ATOM	2126 2129		ARG	222 222	34.925 35.342	16.599 14.780	77.533 78.901	1.00 70.26 1.00 54.11	11 AAAA 11 AAAA
ATOH ATOH	2132	Č	ARG	222	39.562	19.286	75.740	1.00 50.66	AAAA C
HOTA	2133	0	ARG	222	38.737	19.845	75.009	1.00 58.34	AAAA O
HOTA	2134	11	HIS	223 223	40.556	19.981	76.190 75.921	1.00 45.65 1.00 46.93	AAAA C AAAA C
ATOH ATOH	2136 2137	CA CB	HIS	223	40.988 41.057	22.251	77.011	1.00 49.51	AAAA C
A.TOH	2138	ĊĞ	HIS	223	39.710	22.344	77.617	1.00 58.83	AAAA C
ATCH	2139		HIS	223	38.820	23.360	77.556	1.00 61.08	AAAA C AAAA II
ATOH ATOH	2140 2142		HIS	223 223	39.082 37.931	21.388	78.759	1.00 63.28 1.00 58.0 1	AAAA C
ATOH	2143		HIS	223	37.691	23.010	78.232	1.00 48.56	AAAA II
ATOH	2145	Ċ	HIS	223	42.363	21.260	75.122	1.00 50.78	AAAA C
ATON	2146	0	HTS	223	42.506	20.753	74.003 75.769	1.00 47.43 1.00 49.20	O AAAA II AAAA
ATOH ATOH	2147 2149	Cν 11	TYR	224 224	43.359 44.712	21.847	75.259	1.00 48.17	AAAA C
ATOH	2150	CB	TTR	224	45.144	23.430	75.426	1.00 44.07	AAAA C
ATOH	2151	CG.	TTR	224	44.318	24.234	74.417	1.00 51.77	AAAA C AAAA C
ATOH	2152		TTR TTR	224 224	43.193	24.869 25.633	74.904 74.089	1.00 48.94 1.00 48.41	AAAA C
ATOH ATOH	2153 2154		TTR	224	44.623	24.358	73.065	1.00 54.82	AAAA C
ATON	2155		TTR	224	43.847	25.131	72.233	1.00 56.09	AAAA C
HOTA	2156	CS	TYR	224	12.739	25.745	72.766	1.00 54.23 1.00 61.70	C AAAA O AAAA
HOTA HOTA	2157	C OH	TYR	224 224	41.915	26.522 21.095	72.017 75.892	1.00 48.19	AAAA C
ATOH	2160	ŏ	TYR	224	45.776	20.913	77.111	1.00 55.75	AAAA O
ATOH	2161	11	TTR	225	46.504	20.514	75.077	1.00 48.79	AAAA II
ATOH	2163	CA	TTR	225	17.655	19.653	75.555 23.538	1.00 43.02 1.00 42.33	AAAA C AAAA C
HOTA	2164 2165	CB CG	TYR	225 225	48.020 49.286	18.639 17.926	74.548 74.954	1.00 46.95	AAAA C
ATOH	2166		TYR	225	49.299	16.858	75.817	1.00 43.57	AAAA C
HOTA	2167	CEI	TTR	225	50.450	16.221	76.173	1.00 47.26	AAAA C
ATON	2158		TYR	225 225	50.487	18.107	74.421 74.781	1.00 52.82 1.00 53.94	AAAA C AAAA C
ATOH ATOH	2169 2170	GES	TYR Tyr	225	51.656 51.639	17.791 16.707	75.644	1.00 52.31	AAAA C
ATOH	2171	QII	TTR	225	52.986	16.196	75.005	1.00 50.71	O AAAA
ATO!!	2173	Ç	TYR	225	18.970	20.507	75.793	1.00 47.13 1.00 53.97	AAAA C AAAA O
ATOH	2174	9	TYR		49.060	21.514	75.150 76.821	1.00 56.84	AAAA II
ATOH	2175	*1	1114	226	19.634	20.253	10.011		

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ATCH	2177	CA TYR	226		.001 77.172	1.00 56.83	AAAA T
ATOH ATOH	2178 2179	CB TYR	226 226		.343 77.785 .126 77.941	1.00 59.51 1.00 65.45	AAAA C AAAA C
HOTA	2180	COL TYR	226	50,121 23	.557 79.197	1.00 69.12	aaaa c
ATOH ATOH	2181 2182	CEL TYR	226 226		.275 79.400 .409 76.864	1.00 70.77 1.00 69.38	AAAA C AAAA C
ATON	2183	CES TYR	226		.118 77.920	1.00 70.94	AAAA C
ATOH ATOH	2184 2185	CH TYR	226 226		.549 78.301 .254 78.435	1.00 72.96 1.00 70.84	аааа с аааа о
ATOH	2187	C TYR	226		.356 78.165	1.00 57.55	aaaa c
ATCH ATCH	2188 2189	O TYR	226 227		.133 79.350 .080 77.642	1.00 56.90 1.00 53.82	AAAA O H AAAA
ATOH	2191	CA ALA	227		.080 77.642 .557 78.440	1.00 51.82	AAAA C
ATOH HOTA	2192 2193	CB ALA	227 227		.620 79.428 .309 79.170	1.00 55.81 1.00 53.56	AAAA C AAAA C
ATOH	2194	O ALA	227		.218 80.413	1.00 49.63	AAAA O
ATOL: ATOL:	2195 2197	H GLY CA GLY	228 228		.360 78.393 .135 79.028	1.00 50.68 1.00 49.02	AAAA :: AAAA C
ATCH	2198	C GLY	228		.330 79.861	1.00 51.61	AAAA C
HOTA HOTA	2199 2200	O GLY H VAL	228 229		.538 80.776 .495 79.791	1.00 51.10 1.00 47.09	AAAA O AAAA !!
ATCH	2202	CA VAL	229		.671 80.635	1.00 51.11	AAAA C
ATOH ATCH	2203	CB VAL	229 229		.610 81.774 .896 82.565	1.00 56.52 1.00 38.39	AAAA C AAAA C
ATOH	2205	CG2 VAL	229		.035 82.682	1.00 50.16	AAAA C
ATOH ATOH	2206 2207	O VAL	229 229		.173 79.873 .279 79.309	1.00 51.37 1.00 53.71	AAAA C AAAA O
ATOU	2208	H CTS	230		.518 80.036	1.00 42.21	AAAA 11
ALOIT	2210	CA CVS	230 230		.117 79.471	1.00 40.32 1.00 38.42	C AAAA C AAAA
ATOH ATOH	2211	O CYS	230		.350 80.229 .248 81.321	1.00 41.62	AAAA O
ATOH	2213	CB CYS	230		.132 79.370	1.00 31.54 1.00 43.61	AAAA € AAAA S
HOTA	2214 2215	II VAL	230 231		.753 78.266 .534 79.731	1.00 39.83	AAAA II
ATOH	2217	CA VAL	231		.759 80.462	1.00 46.57 1.00 50.99	АААА С АААА С
ATON	2218 2219	CB VAL	231 231		.736 80.088 .878 81.053	1.00 50.41	AAAA C
ATOH	2220	CG2 VAL	231	47.838 21	.913 80.506	1.00 44.95 1.00 52.59	AAAA C AAAA C
HOTA	2221 2222	C VAL	231 231		.321 80.057 .183 78.936	1.00 55.30	AAAA O
ATOH	2223	II PRO	232		.105 80.913	1.00 54.28 1.00 54.25	AAAA 11 AAAA C
ATOH ATOH	2224 2225	CD PRO	232 232		.385 82.320 .625 80.575	1.00 54.39	AAAA C
ATON	2226 2227	CB PRO	232		.877 81.928	1.00 53.73 1.00 55.00	AAAA C AAAA C
ATCH ATOH	2228	CG PRO	232 232		.287 82.765 .913 79.795	1.00 56.37	AAAA C
ATOH ATOH	2229 2230	O FRO	232 233		.482 79.137 .400 79.901	1.00 55.79 1.00 54.76	O AAAA II AAAA
ATON	2232	CA ALA	233		.569 79.124	1.00 49.93	AAAA C
ATOH ATOH	2233	CB ALA	233 233		.807 79.746 .662 78.974	1.00 35.43 1.00 49.79	AAAA C AAAA C
ATCH	2235	O ALA	233		.879 79.616	1.00 51.41	AAAA O
ATOH:	2236 2238	H CYS	234 234		.508 78.072 .518 77.907	1.00 45.07 1.00 48.63	AAAA C
HOTA	2239	C CYS	234		.340 79.076	1.00 50.93	AAAA C
ATOH ATOH	2240 2241	O CYS	234		.513 79.250 .034 76.511	1.00 47.57 1.00 43.10	AAAA C
ATON	2242	SG CYS	234		.034 76.511 .789 75.226	1.00 43.04	AAAA S
ATOH ATOH	2243 2244	II PRO	235 235		.853 79.599 .557 79.207	1.00 49.55 1.00 48.75	AAAA 11 AAAA C
HOTA	2245	CA PRO	235		.569 80.599	1.00 51.69	AAAA C
ATOH ATOH	2246	CB PRO	235 235		.581 80.975 .417 90.077	1.00 50.80	AAAA C
ATOI:	2248	C PRO	235		.852 90.050	1.00 57.11	AAAA C
ATOH ATOH	2249 2250	O ERO	235 236		.957 78.870 .875 80.887	1.00 59.60 1.00 59.85	O AAAA :: AAAA
ATON	2251	CD PRO	236		.875 80.887 .822 82.363	1.00 55.85	AAAA C
ATOH ATOH	2252 2253	CA PRO	236 236		.143 80.493 .814 81.826	1.00 52.27 1.00 53.62	AAAA C AAAA C
ATOH	2254	CG PRO	236		.277 82.751	1.00 56.73	AAAA C
ATOH ATOH	2255 2256	C FRO O PRO	236 236		.886 79.671 .892 79.928	1.00 44.21	AAAA C AAAA O
ATON	2257	II ASII	237		.757 78.716	1.00 46.54	AAAA II
ATCH ATOH	2259 2260	CA ASH CH ASH	237 237	53.895 32	.623 77.716 .653 78.456	1.00 45.94 1.00 58.65	AAAA C AAAA C
HOTA	2261	CO ASH	237		.855 79.371	1.00 58.51	AAAA C
ATOH ATCH	2262 2263	OD1 ASH	237 237		.783 80.379 .910 79.051	1.00 72.25	O AAAA II AAAA
ATON	2266	C ASH	237		.910 79.051 .425 76.788	1.00 46.87	AAAA C
ATOH ATOH	2267 2268	O ASH H THR	237	54.960 30	.935 76.326 .657 76.692	1.00 54.50 1.00 42.91	O AAAA 11 AAAA
ATOH	2270	CA THR	239 239		.657 76.692 .567 75.790	1.00 40.20	AAAA C
ATQU ATQU	2271	CB THR OG1 THR	239	50,461 08	.248 75.466	1.00 42.62 1.00 50.88	AAAA C AAAA O
ATOH	2274	CGC THR	238 238		.343 77.237 .886 77.424	1.00 34.84	AAAA T

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	ATOH	2275	c	THE	238	\$1.279	29.875	75.078	1.00 42.50	AAAN C
, ,	ATOH	2276	O	THR	236	50.569	30.864	75.500	1.00 42.51	AAAA O
	HOTA	2277	H ⊄A	TYR TYR	239 239	51.051 49.949	29.488 29.959	73.832 73.024	1.00 42.62	AAAA C
	ATOH	2280	CB	TTR	239	50.457	30.907	71.931	1.00 44.86	AAAA C
	HOTA	2281	CG	TYR	239	51.099	32.125	72.564	1.00 42.05	AAAA C
	ATOH ATOH	2282	CDI		239 239	52.467 53.092	32.086 33.152	72.815 73.415	1.00 39.41	AAAA C AAAA C
	ATCII	2284	CD2		239	50.376	33.230	72.923	1.00 44.15	AAAA C
	ATC+1	2285		TYR	239	50.973	34.310	73.536	1.00 46.22	AAAA C
•	ATOH ATOH	2286 2287	OH CC	TYR TYR	239	52.339 53.013	34.243	73.779 74.387	1.00 50.40	AAAA C AAAA G
	ATOH	2289	c	TYR	239	19.232	28.813	72.315	1.00 45.54	AAAA C
	ATOH	2290	0	TYR	239	49.922	27.810	72.021	1.00 46.66	AAAA C
	ATOH ATOH	2291	(I	ARG ARG	240 240	47.895 47.177	28.990	72.126 71.426	1.00 40.62 1.00 38.78	AAAA C
	HOTA	2294	CB	ARG	240	45.675	28.127	71.452	1.00 39.77	AAAA C
	PLOTE	2295	CC	ARG	240	45.116	28.944	72.589	1.00 43.37	AAAA C
	ATOH ATOH	2296	CD	ARG ARG	240 210	43.573	28.957 29.693	72.683 71.455	1.00 39.60 1.00 53.98	AAAA U
	ATOH	2299	CE	ARG	240	43.123	31.015	71.530	1.00 48.07	AAAA C
	NOTA	2300	THII		240	43.513	31.562	72.668	1.00 47.65	AAAA N
	ATOH ATOH	2303 2306	CH1	ARG ARG	240 240	42.788 47.627	31.778	70.533 69.979	1.00 51.03	AAAA () AAAA C
	ATOLI	2307	Ö	ARG	240	47.937	28.730	69.302	1.00 32.37	AAAA O
::3 :14	ATOH	2308	1-1	PHE	241	47.779	26.542	69.549	1.00 27.95	II AAAA
4	ATOH	2310	CA	PHE	241	48.182	26.269	68.183	1.00 30.41	AAAA C
	ATCII ATCII	2311	CB CB	SHE	241	49.678 50.235	25.940 25.653	68.151 66.773	1.00 34.83	AAAA C AAAA C
المنط استظ المنط المنطقة	ATOH	2313	CDI		241	50.165	26.567	55.753	1.00 25.31	AAAA C
	ATOI1	2314	CD2		241	50.785	24.417	66.573	1.00 27.38	AAAA C
- 1	ATOH ATOH	2315 2316	CE1		241 241	50.676 51.294	26.232	64.509 65.320	1.00 37.24 1.00 38.45	AAAA C AAAA C
Gatti Gatti	ATON	2317	CS	PHE	241	51.294	25.010	64.281	1.00 21.17	AAAA C
-	ATOH!	2318	C	PHE	241	47.382	25.089	67.621	1.00 35.77	AAAA C
	ATOI!	2319	0	PHE	241	47.543	24.013	68.186	1.00 36.77	AAAA O
	ATOH ATOH	2320 2322	N CA	GLU	242 242	46.738 45.964	25.301 24.269	66.468 65.805	1.00 32.30	AAAA C
	ATOH	2323	CB	GLU	242	46.953	23.144	65.472	1.00 37.98	AAAA C
1	ATOH	2324	C/G	GLU	242	47.867	23.415	64.314	1.00 38.63	AAAA C
	ATOH ATOH	2325 2326	CD OE1	GLU	242 242	47.207 46.380	23.965	63.075 62.517	1.00 39.27 1.00 42.79	AAAA C AAAA O
	ATOH:	2327	OE2		242	47.354	25.109	62.626	1.00 36.36	AAAA O
	ATCH	2328	C	GLU	242	44.752	23.771	66.600	1.00 34.36	AAAA C
	ATOH ATOH	2329 2330	0	GLU GLY	242	44.390	22.611	66.511 67.449	1.00 28.53 1.00 36.94	AAAA O AAAA II
	ATOH	2332	CA	GLT	243	43.048	24.369	68.303	1.00 34.57	AAAA C
	HOTA	2333	C	GLY	243	43.428	23.107	69.319	1.00 37.76	AAAA C
	aton Aton	2334 2335	0	GLY TRP	243	42.474	22.473	69.746 69.611	1.00 43.00 1.00 39.53	AAAA O AAAA II
	ATO!!	2337	CA	TRP	244	44.797	21.536	70.566	1.00 40.85	AAAA C
	ATOI:	2338	CB	TRP	244	44.774	20.271	69.764	1.00 26.76	AAAA C
	ATO:	2339	CG	TRP	244	46.012	19.985	69.029	1.00 43.19 1.00 39.55	AAAA C
	ATOH ATOH	2340 2341	CD2		244 244	47.019 47.998	18.983	69.498 68.489	1.00 36.50	AAAA C
	ATOH	2342	CE3		244	17.186	18.254	70.692	1.00 32.18	AAAA C
	ATOH		CDI		244	46.424	20.308	67,779	1.00 43.37	AAAA C
	ATOH ATOH	2344 2346	CSS		244	47.595 49.150	19.727	67.469 68.620	1.00 38.89	AAAA II AAAA C
	ATOH	2347	C23		244	48.336	17.478	70.815	1.00 43.98	AAAA C
	ATOH	2348	CH2		244	19.322	17.425	69.784	1.00 42.50	AAAA C
	ATOH ATOH	2349 2350	Ú C	TRP TRP	244	45.998 46.253	21.517	71.509 72.146	1.00 42.98 1.00 42.70	AAAA C AAAA O
	ATOH	2351	н	ARG	245	46.888	22.485	71.435	1.00 44.16	AAAA II
	ATO!!	2353	CA	ARG	245	48.169	22.472	72.095	1.00 46.47	AAAA C
	ATOM	2354 2355	CB CG	ARG ARG	245	49.203	21.602	71.367	1.00 47.30 1.00 48.97	AAAA C AAAA C
	ATOH ATCH	2356	CD	ARG	245 245	49.985 51.129	21.552	69.819	1.00 39.29	AAAA C
	ATOH	2357	HE.	ARG	245	51.586	21.665	68.444	1.00 50.86	AAAA II
	ATOH	2359	CI.	ARG	245	52.629	21.044	67.895	1.00 46.73	AAAA C
	HOTA HOTA	2360 2363	UH2		245	53.344 53.072	20.236	68.653 66.638	1.00 50.15 1.00 41.69	11 AAAA 11 AAAA
	ATOIL	2366	C	ARG	245	48.771	23.863	72.271	1.00 46.01	AAAA C
	ATOH	2367	0	ARG	345	48.394	24.793	71.541	1.00 47.44	AAAA O
	ATOH ATOH	2368 2370	II CA	CYS	246 246	49.625 50.246	23.881	73.317 73.628	1.00 42.08 1.00 43.48	AAAA II AAAA C
	ATOH	2370	CA	CYS	246	51.695	25.217	73.183	1.00 43.38	AAAA C
•	ATOH	2372	0	CYS	246	52.476	24.239	73.320	1.00 42.51	AAAA O
	ATOH	2373	CB	CYS	246	50.102	25.392	75.138	1.00 48.91	AAAA C AAAA S
	ATOH HOTA	2374 2375	SG II	CYS	246 247	48.386 52.121	25.049 26.288	75.797 72.56↓	1.00 43.68	AAAA II
	ATCH	2377	CA	VAL	217	53.417	26.468	71.982	1.00 36.51	AAAA C
	ATO:	2379	CB	VAL	247	53.569	26.357	70.444	1.00 36.87	AAAA C
	HOTA	2379 2380		VAL VAL	247	53.089 53.129	24.988	70.024 69.729	1.00 32.71 1.00 28.20	AAAA C
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ATOH	2381	Ţ	VAL	217	53.969	27.812	د تو. 25	1.00 39.37	AAAA C
ATC! I	2382	φ 3	VAL ASP	247 248	53.230 55.291	28.770	72.549 72.711	1.00 38.80 1.00 45.21	O AAAA II AAAA
TOTA	2385	CA	ASP	248	55.895	29.115	73.098	1.00 40.19	AAAA C
ATOH	2386 2387	CB CG	ASP ASP	248 248	57.091 58.126	28.946 27.997	73.953 73.394	1.00 42.63	AAAA C AAAA C
HOTA	2398	001		248	59.067	27.795	74.187	1.00 53.06	AAAA O
ATOH	2389	002	ASP ASP	248 248	58.167 56.315	27.395 29.883	72.313 71.839	1.00 69.51 1.00 36.99	AAAA C AAAA C
ATCH ATCH	2390 2391	С О	ASP	248	56.292	29.288	70.772	1.00 39.70	O AAAA
ATCII	2392	11	ARG	249	56.545 56.950	31.163	71.918 70.906	1.00 30.72 1.00 36.17	II AAAA C
HOTA	2394 2395	CA CB	ARG ARG	249 249	57.223	32.057 33.495	71.491	1.00 21.29	AAAA 🤆
HOTA	2396	CG	ARG	249	57.594	34.424 35.811	70.326 70.843	1.00 24.96 1.00 21.23	AAAA C AAAA C
ATOH ATOH	2397 2398	UE	ARG ARG	549 549	57.814 56.658	35.811	71.689	1.00 39.75	AAAA D
ATO: 1	2400	CC	ARG	516	55.632	36.823	71.101	1.00 39.35 1.00 25.41	AAAA C H AAAA
ATCH ATCH	2401 2404	0H1		249 249	55.642 54.641	37.118 37.118	69.801 71.946	1.00 44.04	II AAAA II
АТОН	2407	C	ARG	219	58.134	31.685	70.010	1.00 40.63	AAAA C AAAA O
ATOH ATOH	2408 2409) I	ARG ASP	249 250	58.086 59.149	31.923 30.974	68.797 79.468	1.00 41.87	II AAAA II
ATOH	2411	CA	92A	250	60.287	30.739	69.606	1.00 46.90 1.00 53.11	AAAA C AAAA C
ATOH ATOH	2412 2413	CB CG	ASP ASP	250 250	61.740 62.421	30.726 32.122	70.154 70.081	1.00 71.49	AAAA C
ATOH	2414	ODI	ASP	250	63.124	32.682	69.176	1.00 58.53	0 AAAA 0 AAAA
ATOH ATOH	2415 2416	OD2	ASP ASP	250 250	62.272 59.881	32.928 29.536	71.071 68.771	1.00 70.30	AAAA C
ATOR	2417	0	ASP	250	60.291	29.443	57.516	1.00 39.06	AAAA O
ATOH ATOH	2418 2420	il CA	SHE	251 251	59.116 58.457	28.609 27.601	69.299 69.489	1.00 36.13	AAAA II AAAA C
ATOH	2421	CB	PHE	251	57.468	26.746	69.256	1.00 29.82	AAAA C
ATOM	2422	COL	PHE	251 251	56.701 57.101	25.801 24.479	68.385 68.263	1.00 41.50	AAAA C AAAA C
ATON ATON	2423 2424		PHE	251	55.559	26.213	67.686	1.00 37.78	AAAA C
ATOI:	2425		SHE	251	56.414	23.597	67.424 66.856	1.00 29.30 1.00 36.09	AAAA C AAAA C
HOTA	2426 2427	CE2	PHE	251 251	54.847 55.294	25.372 24.070	66.715	1.00 36.21	AAAA C
ATON	2428	C	PHE	251	57.624	28.290	67.338 66.144	1.00 39.28 1.00 30.27	AAAA C AAAA O
ATOM ATOM	2429 2430	II O	PHE	251 252	57.811 56.734	28.010 29.225	67.713	1.00 35.13	II AAAA
MOTA	2432	CA	CYS	252	55.895	29.870	66.728	1.00 38.80 1.00 44.73	AAAA C AAAA C
ATOH HOTA	2433 2434	0	CYS CYS	252 252	56.827 56.552	30.598 30.534	65.747 64.536	1.00 44.73	AAAA O
ATOI1	2435	CB	CYS	252	54.903	30.778	67.379	1.00 35.65	AAAA C AAAA S
ATOM ATCH	2436 2437	SG H	CYS ALA	252 253	53.562 57.872	31.544 31.256	66.459 66.285	1.00 39.03 1.00 41.53	II AAAA
HOTA	2439	CA	ALA	253	58.687	32.071	65.415	1.00 40.39	AAAA C AAAA C
I-IOTA I IOTA	2440	CB C	ALA ALA	253 253	59.529 59.551	33.089 31.167	66.172 64.539	1.00 36.07 1.00 42.88	AAAA C
ATOH	2442	0	ALA	253	60.147	31.735	63.640	1.00 47.42	O AAAA II AAAA
ATOM ATOM	2443 2445	CA CA	ASU	254 254	59.657 60.546	29.859	64.700 63.929	1.00 38.75 1.00 42.94	AAAA C
ATOH	2446	CB	ASH	254	61.667	28.497	64.847	1.00 48.09	D AAAA D AAAA
ATOH ATOH	2447 2448	C:3	ASH ASH	254 254	62.696 63.468	29.635 29.840	64.081	1.00 49.54 1.00 61.38	AAAA O
ATOH	2449		ASII	254	62.607	30.321	65.144	1.00 48.38	II AAAA
HOTA ATOM	2452 2453	0 د	IIRA IIRA	254 254	59.907 60.552	27.959 26.965	63.135 62.804	1.00 53.72 1.00 51.19	AAAA C AAAA O
ATOM	2454	11	ILE	255	58.612	28.136	62.766	1.00 57.77	II AAAA
HOTA	2456 2457	CA CB	ILE	255 255	57.828 56.329	27.107	62.134 62.304	1.00 53.29 1.00 50.41	AAAA C AAAA C
ATOH ATOH	2458		ILE	255	55.477	26.595	61.246	1.00 51.95	AAAA C
ATOH	2459		ILE	255 255	55.778	26.675	63.553 64.006	1.00 40.59 1.00 38.97	AAAA C
HOTA	2460 2461	CDI	ILE	255	54.479 58.127	27.317 26.886	60.651	1.00 52.62	AAAA C
HOTA	2462	0	ILE	255	58.196	25.709	60.252 59.918	1.00 53.96 1.00 49.96	O AAAA II AAAA
HOTA	2463 2465	CA.	LEU	256 256	58.290 58.680	27.960 27.764	58.516	1.00 63.68	AAAA C
HOTA	2466	CB	LEU	256	58.175	29.012	57.799	1.00 56.80 1.00 59.11	AAAA C AAAA C
HOTA ATOH	2467 2468	CCI	LEU LEU	256 256	56.671 56.310	29.196 30.654	57.864 57.645	1.00 43.31	AAAA C
ATOH	2469	CDC	LEU	256	55.965	28.222	56,928	1.00 55.88 1.00 66.23	AAAA C AAAA C
aton Aton	2470 2471	0	LEU	256 256	60.193 60.691	27.622 27.511	58.355 57.245	1.00 70.29	AAAA O
A'TOI I	2172	11	SER	257	60.942	27.559	59,430	1.00 64.61	AAAA C
ATON	2474 2475	CA CB	SER SER	257 257	62.352 62.924	27.529 27.318	59.534 60.955	1.00 62.45	AAAA C
ATOH	2476	QG	SER	257	63.381	25.990	61.074	1.00 56.18	O AAAA O AAAA
HOTA	2478 2179	0	SER SER	257 257	62.973 64.127	26.497 26.731	58.610 59.245	1.00 70.77 1.00 72.50	AAAA C
ATOR	2480	11	ALA	258	62.322	25.309	50.320	1.00 74.61	II AAAA II
1 IOTA	2482 2483	CA CB	ALA ALA	258 258	62.933 62.570	24.488	\$7.343 \$7.584	1.00 76.34 1.00 80.82	AAAA C AAAA C
ATOH	2484	C	ALA	258	62.663	24.964	55.921	1.00 78.21	4444 C

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ATCH	2485	9	ALA	258	62.980	21 120	25/58 \$5.000	1.00 79.60	AAAA G
ATCH	2486	1	GLU	259	62.069	24.139	55.651	1.00 79.05	AAAA II
ATOH	5488	CA.	GLU	259	61.742	26.621	54.342	1.00 83.84	I AAAA
ATCH ATCH	2489 2490	CB CB	SLU GLU	259 259	60.226 59.687	26.457	54.135 54.314	1.00 86.99	AAAA C AAAA T
ATOH	2491	CD	GLU	259	58.364	25.032	55.057	1.00 97.77	I AAAA
aton Aton	5463 5465	OE1		259 259	58.080 57.598	24.088	55.839 54.837	1.00101.45	AAAA O
HOTA	2191	Ç	SLU	259	62.117	28.078	54.083	1.00 85.43	AAAA C
ATC!!	2495	0	GLU	259	62.059	29.009	54.903	1.00 88.01	O AAAA II AAAA
ATOH ATOH	2498	II TA	SER SER	260 260	62.298 62.725	28.338	52.799 52.254	1.00 84.66 1.00 84.03	***** :
ATOH	2429	CB	SER	250	63.753	29.269	51.173	1.00 87.24	AAAA C
ATOH HOTA	2500 2502	୍ତ ପ	SER SER	260	63.306 61.558	29.419 30.466	49.835 51.789	1.00 93.65 1.00 80.84	AAAA C
ATON	2503	ċ	SER	260	61.496	30.889	50.635	1.00 81.31	O AAAA
ATON ATON	0504 0506	!I CA	SER SER	261	60.617 59.423	30.785 31.540	52.685 52.308	1.00 78.56 1.00 72.13	II AAAA C AAAA
ATON	2507	CB.	SER	261	58.1/9	31.297	53.170	1.00 67.30	AAAA C
ATOH	2508	OG	SER	261	57.436	30.334	52.451	1.00 74.74	AAAA O
ATOH ATOH	2510	0	SER SER	261	59.683 60.048	33.032 33.588	52.318 53.334	1.00 66.90	AAAA C AAAA O
ATOH	2512	ы	ASP	262	59.364	33.659	51.204	1.00 65.30	AAAA II
ATOH	2514 2515	CA CB	ASP ASP	262	59.358	35.071 35.285	50.915	1.00 58.55 1.00 64.85	AAAA C AAAA C
ATOH ATOH	2516	ÇĞ	ASP	262 262	59.268 59.389	36.713	49.400 48.931	1.00 76.42	AAAA C
ATOH	2517	OD1		262	59.473	37.708	49.701	1.00 79.81	AAAA O
ATOH ATOH	2518 2519	OD2	ASP ASP	262 262	59.404 58.121	36.873 35.706	47.671 51.529	1.00 80.46 1.00 56.88	AAAA C
ATOH	2520	ō	ASP	262	57.851	36,918	51.510	1.00 52.48	AAAA C
ATOH	2521 2523	(I CA	SER	263	57.259 56.047	34.849	52.119	1.00 53.43 1.00 52.84	AAAA C
ATOH ATOH	2524	CB	SER SER	263 263	55.020	35.352 34.245	52.734 52.885	1.00 46.60	AAAA C
ATON	2525	O:3	SER	263	55.149	33.349	51.791	1.00 66.80	AAAA O
ATOH HOTA	2527 2528	o C	SER SER	263 263	56.310 57.396	35.965 35.737	54.117 54.709	1.00 49.52 1.00 42.33	AAAA C AAAA O
ATOI1	2529	11	GLU	264	55.320	36.783	54.540	1.00 38.93	AAAA II
ATOH	2531 2532	CA CB	GLU GLU	264	55.362	37.222	55.921	1.00 36.70	AAAA C AAAA C
ATOH ATOH	2533	CG	GLU	264 264	54.359 54.575	38.337 39.482	56.208 55.213	1.00 -37.74	AAAA C
ATOH	2534	CD	GLU	264	55.374	40.632	55.793	1.00 34.36	AAAA C
ATOH ATOH	2535 2536	OE1 OE2	GLU	264 264	55.493 55.832	40.600 41.576	57.034 55.146	1.00 41.55 1.00 39.60	AAAA O
ATCH	2537	C	GLU	264	55.098	36.056	56.827	1.00 35.84	AAAA C
HOTA	2538 2539	11 O	GLU GLY	264 265	54.368 55.861	35.151 35.938	56.355 57.962	1.00 39.60 1.00 35.64	AAAA C
ATOI1	2541	CA	GLY	265	55.671	34.690	58.727	1.00 40.30	AAAA C
ATOH	2542 2543	S	GLY	265	54.622	34.716	59.829	1.00 39.51 1.00 37.20	AAAA C AAAA O
ATOH ATOH	2544	O H	GLY CHE	265 266	53.951 54.537	35.699 33.569	60.135 60.516	1.00 37.20	AAAA II
ATOH	2546	CA	SHE	266	53.637	33.434	61.625	1.00 33.70	AAAA C
ATOH ATOH	2547 2548	CB CG	ehe ehe	266 266	53.924 53.356	32.155 30.958	62.306 61.671	1.00 28.20 1.00 37.07	AAAA C AAAA C
HOTA	2549	CDI	PHE	266	53.760	30.618	60.377	1.00 34.73	AAAA C
ATCH ATCH	2550 2551	CD3 CE1	PHE	266	52.383	30.195	62.313 59.760	1.00 25.65 1.00 37.72	AAAA C
ATON	2552	CE2	FHE	266 266	53.225 51.879	29.506 29.094	61.672	1.00 24.63	AAAA C
ATOH	2553	C2	PHE	266	52.260	28.708	60.402	1.00 23.58	AAAA C
ATOH ATOH	2554 2555	C C	PHE	266 266	53.571 54.446	34.570 35.372	62.608 62.879	1.00 35.82 1.00 39.23	AAAA C
ATOH	2556	11	VAL	267	52.360	34.763	63.161	1.00 37.10	AAAA ::
ATOH ATOH	2558 2559	CB CB	VAL VAL	267 267	52.118	35.812 36.974	64.113 63.567	1.00 36.09 1.00 39.01	AAAA C AAAA C
ATON	2560	CGI		267	51.526	37.601	62.230	1.00 31.10	AAAA C
ATOH	2561	G23	VAL.	267	19.990	36.400	63.570	1.00 36.88	7444 C
HOTA	2562 2563	0	VAL VAL	267 267	51.506 51.202	35.260 34.098	65.400 65.515	1.00 33.55 1.00 32.41	AAAA C
HOTA	2564	11	LLE	268	\$1.539	36.088	66.477	1.00 35.98	AAAA II
ATOH ATOH	2566 2567	CA CB	i le	268 268	50.867 51.791	35.573 35.232	67.681 68.849	1.00 39.79 1.00 31.17	AAAA C AAAA C
HOTA	2568	032		268	50.922	35.253	70.150	1.00 32.66	AAAA C
ATOH:	2569	CGI		268	52.403	33.866	68.724	1.00 23.56 1.00 25.93	C AAAA
ATOH ATOH	2570 2571	C DI	ILE	268 268	53.421 49.806	33.546 36.608	69.806 68.060	1.00 42.44	AAAA C
HOTA	2572	Ũ	ILE	268	50.116	37.767	68.327	1.00 39.99	AAAA O
ATON ATON	2573 2575	H CA	HIS	269 269	48.528 47.491	36.292 37.320	67.864 60.173	1.00 44.26 1.00 44.28	AAAA :: AAAA C
ATOH	2576	CB	CIH	269	16.885	37.876	66.901	1.00 45.48	AAAA C
HOTA	2577	CG	HIS	269	45.915	39.986	57.079 57.096	1.00 54.33	D AAAA
ATOH	2579 2579	CD2		269 269	44.551 46.356	39.014 40.290	67.096 67.307	1.00 51.86	AAAA II
ATOH	2591	CEL	III 3	269	45.282	41.057	67.437	1.00 55.17	AAAA T
HOTA	2582 2584	C C	HIS	269 269	44.175	40.324	67.369 69.074	1.30 46.97 1.39 45.54	AAAA C
ATO!	2585	õ	HIS	269	46.076	35.552	69.117	1.00 42.94	AAAA

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HOTA	.:536	n ASE	270	45.952	37.526	70.959	1.00 40.82	AAAA II
ATOH	2588	CA ASP	510	14.918	37.005	71.001	1.00 48.03	2222
ATOH	2589	CB ASP	270	43.573	37.01;	70.339	1.00 63.63	AAAA C
ATCH	2590	CG ASP	270	42.919	38.393	70.294	1.00 80.82	AAAA C AAAA O
ATCH	2591	OD1 ASP	270	41.737	38.379	69.835 70.652	1.00 90.92	AAAA O
ATOH	2592	OD2 ASF	270 270	43.407 45.226	39.494 35.667	71.594	1.00 44.66	AAAA C
ATCH ATCH	2593 2594	O ASP	270	44.357	34.782	71.576	1.00 45.54	AAAA O
ATOH	2595	n GLY	271	16.477	35.379	71.924	1.00 41.63	II AAAA II
ATOIL	25,97	CA GLY	271	46.839	34.117	72.506	1.00 37.20	AAAA C
ATOH!	2598	c GLY	271	46.819	32.998	71.537	1.00 39.15	AAAA C
ATOH	2599	O GLY	271	46.775	31.865	72.039	1.00 46.55	дада О 11 адаа
ATO!	2600	N GLU	272	47.015	33.292	70.251	1.00 41.49	AAAA D
ATOH	2602	CA GLU	272	47.109	32.092	69.371 68.876	1.00 43.56 1.00 37.58	AAAA C
ATOH	2603	CB GLU	272 272	45.752 45.779	31.737 30.600	67.839	1.00 45.30	AAAA C
ATON	2604 2605	CG GLU	272	44.413	30.528	67.149	1.00 36.92	AAAA C
ATOH HOTA	2506	OE1 GLU	272	43.545	31.345	67.533	1.00 48.41	AAAA C
ATOH	2607	OE2 GLU	272	44.223	29.696	66.286	1.00 44.10	O AAAA
ATOH	2608	G GLU	272	48.211	32.324	68.335	1.00 40.32	AAAA C
ATO: I	2609	O GLU	272	48.445	33.447	67.896	1.00 37.04	AAAA O
ATCH	2610	H CYS	273	48.943	31.237	58.138	1.00 38.83	AAAA II
HOTA	2612	CA CIS	273	50.046	31.187	67.188	1.00 40.27	АААА С АААА С
ATCH	2613	C CYS	273	49.321	30.810	65.883	1.00 42.16	AAAA O
ATOH	2614	o cys	273	48.713	29.712	65.831	1.00 40.36	AAAA C
ATOH	2615	CB CYS	273	51.098	30.148	67.529 66.260	1.00 39.79	AAAA S
ATOH	2616	SG CYS	273 274	52.337	29.825 31.749	64.933	1.00 33.70	II AAAA
ATCH	2617	H MET	274	49.373 48.586	31.351	63.720	1.00 36.68	AAAA C
ATOM	2619 2620	CA HET CB HET	274	47.136	31.861	63.847	1.00 29.11	AAAA C
ATOH	2621	CG HET	274	46.923	33.379	63.691	1.00 36.51	AAAA C
ATOH ATOH	2622	SD HET	274	45.477	33.921	64.677	1.00 40.00	aaaa s
ATO!!	2623	CE HET	274	45.659	35.658	64.754	1.00 22.47	AAAA C
ATOH	2624	C HET	274	49.426	31.900	62.608	1.00 39.35	AAAA C
ATOH	2625	O HET	274	50.167	32.880	62.672	1.00 41.00	AAAA O
ATOH	2626	II SLII	275	49.378	31.353	61.428	1.00 42.55	AAAA II
ATCI-I	2628	CA GLH	275	50.041	31.834	60.232	1.00 37.69	AAAA C
ATOH	2629	CB GLH	275	49.618	30.765	59.242	1.00 34.01	AAAA C AAAA C
I-IOTA	2630	CG GLII	275	49.329	31.274	57.864	1.00 56.40 1.90 66.46	AAAA C
MOTA	2631	CD GLN	275	49.275	30.190	56.812	1.00 67.24	AAAA O
HOTA	2632	OE1 GLII	275	49.941	29.151	56.910 55.799	1.00 07.24	AAAA N
MOTA	2633	NE2 GLN	275 275	48.451 49.721	30.436 33.195	59.720	1.00 35.41	AAAA C
ATOM	2636	C GLH	275	50.526	33.831	59.064	1.00 35.95	AAAA O
ATOH ATOH	2637 2638	H GLU	276	18.566	33.754	60.056	1.00 41.70	AAAA II
ATCH	2640	CA GLU	276	48.222	35.080	59.571	1.00 43.96	AAAA C
ATOLL	2641	CB GLU	276	47.387	34.884	58.245	1.00 42.40	AAAA C
ATOH	2642	CG GLU	276	47.154	36.269	57.650	1.00 53.84	AAAA C
ATOH	2643	CD GLU	276	48.359	37.198	57.460	1.00 61.37	AAAA C
ATOII	2644	OE1 GLU	275	49.356	36.595	56.943	1.00 67.32	AAAA O
ATOH	2645	OE2 GLU	275	48.242	38.411	57.811	1.00 45.16	AAAA C AAAA C
ATOH	2646	c GLU	276	47.444	35.935	60.540	1.00 39.74	AAAA O
ATON	2647	o GLU	276	46.769	35.449	61.444	1.00 38.69	AAAA II
ATO!	2648	n crs	277	47.495	37.235	60.500 61.332	1.00 46.11	AAAA C
ATOH	2650	CA CYS	27? 277	46.718 45.205	38.089 37.938	60.994	1.00 52.70	AAAA C
ATOM	2651	C CYS	277	44.760	37.511	59.936	1.00 49.43	AAAA O
ATOH ATOH	2652 2653	O CYS	277	47.039	39.537	61.111	1.00 45.56	AAAA C
ATON	2654	SG CYS	277	48.629	40.083	61.645	1.00 52.86	AAAA S
HOTA	2655	II PRO	278	44.380	38.261	61.993	1.00 54.63	II AAAA
ATOH	2656	CD PRO	279	44.824	38.778	63.311	1.00 57.20	AAAA C
ATOH	2657	CA PRO	278	42.946	38.185	61.899	1.00 55.82	AAAA C
ATOH	2658	CB PRO	278	12.145	38.635	63.267	1.00 55.61	AAAA C AAAA C
ATOH:	2659	CG PRO	278	43.605	38.670	64.153	1.00 55.58	AAAA C
TOTA	2660	C PRO	278	42.487	39.116	60.781	1.00 52.55	AAAA Q
ATOH	2661	O PRO	278	43.083	40.195	60.631	1.00 49.35	AAAA II
HOTA	2662	II SER	279	11.370	38.845	65.143 59.140	1.00 52.03	AAAA C
HOTA	2664	CA SER	279	40.915	39.720 39.572	58.975	1.00 47.62	AAAA C
ATOH	2665	CB SER	279 279	39,280	39.372	57.785	1.00 68.16	AAAA O
ATOH	2666	OG SER	279	39.320 41.003	41.209	59.173	1.00 55.40	AAAA C
ATOH ATOH	2668 2669	O SER	279	41.005	41.740	58.059	1.00 55.40	AAAA O
ATON	2670		280	40.775	41.962	60.247	1.00 55.32	II AAAA
ATON	2672	CA GLY	260	40.968	43.406	59.868	1.00 48.58	AAAA C
ATOI-I	2673		280	42.248	43.890	60.479	1.00 55.98	AAAA C
ATOH	2674	O GLY	280	42.249	45.097	60.772	1.00 56.00	AAAA O
ATOM	2675		281	43.213	42.983		1.00 55.42	II AAAA II
ATOH	2677		261	44.505	43.411	61.262	1.00 52.94	AAAA C
HOTA	2678		281	44.938	42.644	62.523	1.00 61.20	AAAA C
HOTA	2679		291	43.959	42.792	63.637	1.00 53.66	AAAA C AAAA C
ATOH	2680		281	44,142	43.702	64.630	1.00 60.47	AAAA C
ATOH	2691		281	42.939	41.992	63.712 65.678	1.00 64.71	AAAA C
ATOH	2692		291	43.272	43.901 42.162			AAAA C
ATON	2683		291 291	41.931 42.141	43.115		1.00 58.88	AAAA C
ATON	2684	CO FILE	- 21	4141			•	

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HOTA	2685 T PH		45.630	43.217	60,240	1.00 48.00	AAAA C
HOTA	2686 O PH 2687 H IL		45.738 45.670	42.395 43.990	59.327 69.557	1.00 38.84 1.00 49.55	AAAA O AAAA II
ATOH	2689 CA IL	E 282	47.997	13.981	59.748	1.00 45.00	AAAA C
ATOH ATOH	2690 CB IL		47.945 48.041	45.188 46.494	50.799 50.507	1.00 30.25 1.00 24.60	AAAA C AAAA C
ATOH	2692 GG1 IL	E 282	49.092	45.022	57.795	1.00 38.71	AAAA C
ATCH ATCH	2693 CD1 IL 2694 C IL		49.194 49.081	46.043	56.669 60.673	1.00 33.38	C AAAA C AAAA
ATOI:	2695 O IL	282	49.078	44.447	61.759	1.00 48.49	AAAA O
ATOH ATOH	2696 H AR 2698 CA AR		50.126 51.396	43.153 43.094	60.298 61.048	1.00 48.68 1.00 39.30	AAAA N AAAA C
ATON	2699 CB AR	3 283	52.300	42.200	60.286	1.00 41.10	AAAA C
I TOTA	2700 CG AR 2701 CD AR		52.295 53.078	40.696 39.986	60.515 59.451	1.00 29.19 1.00 29.85	AAAA C AAAA C
ATOM	2702 HE AR-		52.923	38.545	59.404	1.00 29.39	AAAA II
ATOI-I ATOI-I	2704 CS AR- 2705 BH1 AR-		51.362 51.065	38.024 38.846	58.646 57.944	1.00 37.61 1.00 31.41	АААА С АААА Н
ATO!	2708 HH2 AR		51.651	36.722	58.596	1.00 31.97	II AAAA II
ATOH ATOH	2711 C ARC 2712 O ARC		51.945 51.931	44.498 45.228	61.190	1.00 42.27 1.00 43.42	AAAA C AAAA O
HOTA	2713 II ASI	1 284	52.362	44.886	62.422	1.00 39.49	II AAAA II
ATOH ATOH	2715 CA ASI 2721 C ASI		52.733 54.078	46.311 46.656	62.574 61.929	1.00 42.07 1.00 41.64	AAAA C AAAA C
ATOH	2722 O ASI	1 284	54.431	47.798	61.742	1.00 39.01	AAAA O
ATOM ATOM	2716 CB ASI 2717 CG ASI		52.734 53.917	46.760 46.028	64.032 64.611	1.00 37.33 1.00 50.21	AAAA C AAAA C
ATOI-1	2718 OD1 AS	1 284	54.609	45.104	64.192	1.00 44.30	AAAA O
ATOH ATOH	2719 HD2 AS: 2723 H GL		54.323 54.931	46.432 45.699	65.842 61.562	1.00 42.46 1.00 40.10	II AAAA II AAAA
ATOI-I	2725 CA GL	í 285	55.971	45.815	60.593	1.00 26.91	AAAA C
ATOI-I ATOI-I	2726 C GL' 2727 O GL'		56.091 55.584	44.468	59.848 60.187	1.00 33.12 1.00 29.51	AAAA C AAAA O
ATOI-1	2728 II SEI	286	56.915	44.619	58.766	1.00 26.53	II AAAA II
ATOI1	2730 CA SEI 2731 CB SEI		57.109 57.944	43.385 43.681	57.975 56.7 5 7	1.00 32.67 1.00 33.19	AAAA C AAAA C
ATOH1	2732 OG SEI	286	58.283	42.480	56.014	1.00 31.95	AAAA O
ATOH ATOH	2734 C SEI 2735 O SEI		57.750 58.700	42.310 42.495	58.836 59.607	1.00 34.57 1.00 44.29	AAAA C AAAA O
ATOH	2736 II GLI	1 287	57.227	41.148	58.940	1.00 34.45	H AAAA
ATOH ATOH	2738 CA GLI 2739 CB GLI		57.738 59.139	40.005 39.610	59.634 59.083	1.00 35.25 1.00 27.97	AAAA C
ATOM	2740 CG GL	1 287	59.037	39.234	57.664	1.00 26.61	AAAA C
ATOI1	2741 CD GLI 2742 OE1 GLI		58.539 58.192	37.963 37.023	57.130 57.845	1.00 21.25 1.00 28.18	AAAA C AAAA O
I IOTA	2743 HE2 GLI	1 287	58.492	37.838	55.782	1.90 27.55	II AAAA II
ATOH ATOM	2746 C GLI 2747 O GLI		57.773 58.163	40.286 39.415	61.111 61.908	1.00 30.25 1.00 32.78	AAAA C AAAA O
ATOLL	2748 II SEE	288	57.021	41.217	61.624	1.00 32.49	M AAAA N
ATOH HOTA	2750 CA SER 2751 CB SER		56.696 56.024	41.322	63.043 63.313	1.00 28.98 1.00 35.79	AAAA C AAAA C
ATO!!	2752 OG SER	288	55.639	42.612	64.701	1.00 36.61	AAAA O
ATOH ATOH	2754 C SEF 2755 O SEF		55.665 54.993	40.285 39.776	63.442 62.553	1.00 28.96 1.00 31.16	AAAA C AAAA O
ATOLL	2756 II NET	289	55.774	39.720	64.621	1.00 32.51	II AAAA II
ATOH ATOH	2758 CA HET 2759 CB HET		54.975 55.507	38.697 37.823	65.105 66.153	1.00 34.53 1.00 30.31	AAAA C AAAA C
ATOI1	2760 CG ME1	289	56.571	36.872	65.680	1.00 40.50	AAAA C
ATOH ATOH	2761 SD MET 2762 CE MET		56.977 55.745	35.623 34.315	66.881 66.508	1.00 31.65 1.00 30.47	AAAA S AAAA C
ATO! 1	2763 C MET	289	53.557	39.286	65.703	1.00 35.55	AAAA C
1.IOTA I-IOTA	2764 O MET 2765 H TYP		52.630 53.380	38.512 40.565	66.014 65.742	1.00 38.37 1.00 29.54	AAAA O BAAA II
ATOI1	2767 CA TYP	290	52.363	41.358	66.297	1.00 38.81	AAAA C
I IOTA	2768 CB TYF 2769 CB TYF		52.947 53.570	42.589 42.194	67.042 68.351	1.00 36.72 1.00 41.94	AAAA C
ATOI	2770 CD1 TYP	290	54.932	41.780	68.350	1.00 37.79	AAAA C
ATOH ATOH	2771 CE1 TYP 2772 CD2 TYP		55.548 52.987	41.368	69.503 69.570	1.00 32.60 1.00 39.93	AAAA C AAAA C
ATOI I	2773 CE2 TYP	590	53.501	41.750	70.748	1.00 36.16	AAAA C
HOTA HOTA	2774 CD TYP 2775 OH TYP		54.822 55.581	41.355	70.693 71.751	1.00 38.85	AAAA C AAAA O
ATOL	2777 C TYP	290	51.361	41.955	65.270	1.00 45.54	AAAA C
HOTA	2778 O TYF 2779 H CYS		51.733 50.071	42.520 41.698	64.227 65.537	1.00 47.10 1.00 44.68	O AAAA II AAAA
INTA	2781 CA CYS	291	49.017	42.205	64.685	1.00 47.20	AAAA C
ATOI1 ATOI1	2782 C CYS		48.295 47.892	43.434 43.550	65.194 66.343	1.00 46.06 1.00 49.45	AAAA C AAAA O
ATO:1	2784 CB CY3	291	47.973	41.103	64.483	1.00 43.44	AAAA C
ATOI I ATOI I	2785 SG CYS		49.766 43.136	39.715 44.453	63.683 64.365	1.00 45.49 1.00 46.82	AAAA S AAAA II
ATO!	2788 CA ILE	292	47.399	45.651	64.755	1.00 50.64	AAAA C
ATOH ATOH	2789 CB ILE 2790 CGC ILE		49.267 49.291	46.932 46.885	64.779 65.861	1.00 39.19 1.00 44.39	AAAA c AAAA c
ATOH	2791 CG1 ILE		49.291	47.095	63.402	1.00 44.25	AAAA C

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2792	CDI	ILE.	292	49.234	48.564	63.108
27.23	Ċ	I LE	292	46.240	46.003	53.905
2794	C	I LF.	292	46.165	45.526	62,670
2795	11	PRO	293	45.150	46.507	64.395

							20/30		
HOTA	2792	CDI	I LE.	292	49.234	48.564	63.108	1.00 32.80	AAAA C
ATCH	27.23	Ċ	LLE	292	46.240	46.003	53.905	1.00 50.01	AAAA C
									AAAA O
ATOH	2794	O	ILE	292	46.165	45.526	62.670	1.00 46.64	
ATC! I	2795	11	PRO	293	45.150	46.507	64.395	1.00 51.86	AAAA II
I 1OTA	2796	CD	PRO	293	45.009	46.804	65.839	1.00 51.05	AAAA C
ATOH	2797	CA	PRO	293	43.958	46.930	63.675	1.00 51.40	AAAA C
	_								AAAA C
ATOf1	2798	CB.	PRO	293	43.170	17.784	64.681	1.00 49.00	
1 OTA	2799	C:2	PRO	293	43.533	47.112	55.951	1.00 53.73	AANA C
ATCH	2800	C	PRO	293	44.253	47.870	62.525	1.00 51.68	AAAA C
	2801	ò	PRO	293				1.00 51.92	AAAA O
ATOH					45.053	19.788	62.737		
atch	2902	11	CYS	294	43.607	47.621	61.408	1.00 50.66	AAAA II
ATCII	2804	CA	CYS	294	43.811	48.454	60.254	1.00 57.90	aaaa c
HOTA	2805	C	CYS	294	43.219	49.848	60.345	1.00 59.59	AAAA C
	2806	Ō	CYS	294				1.00 60.87	AAAA O
ATOH					43.744	50.814	59.785		
ATOM	2897	CB	CYS	294	43.229	47.686	59.046	1.00 57.59	AAAA C
I IOTA	2808	SG	CXS	294	44.408	45.460	58.563	1.00 51.12	AAAA S
ATOH	2809	11	ALA	295	42,009	50.031	60.854	1.00 65.87	AAAA II
ATOH	2811	CA	ALA	295				1.00 71.19	AAAA C
					41.391	51.386	60.804		
ATOI:	2812	CB	ALA	295	42.311	52.459	61.393	1.00 63.82	AAAA C
I IO'F.A	2813	C	ALA	295	40.971	51.770	59.379	1.00 69.17	AAAA C
ATOM	2814	Ö	ALA	295	41.421	52.717	58.762	1.00 64.70	AAAA O
		11	GLY	296				1.00 71.30	II AAAA
ATCH	2815				10.153	50.920	58.775		
ATCH	2817	CA	GLT	296	39.640	51.049	57.416	1.00 72.66	AAAA C
ATOH	2818	С	GLY	296	39.895	49.686	56.769	1.00 74.20	aaaa c
HOTA	2819	O.	GLT	296	40.408	49.819	57.490	1.00 75.04	AAAA O
	2820			297				1.00 71.98	AAAA II
ATOI1		11	PRO		39.561	49.540	55.497		
ATOH	2821	CD	PRO	297	38.928	50.561	54.637	1.00 72.15	AAAA C
HOTA	2822	CA.	PRO	297	39.958	48.344	54.777	1.00 68.23	AAAA C
NCTA	2823	CB	PRO	297	39.488	49.603	53.369	1.00 72.57	AAAA C
ATOH	2824	CG	PRO	297	38.470	49.687	23.49n	1.00 74.01	AAAA C
PIOTA	2825	C	PRO	297	41.480	48.306	54.860	1.00 65.78	AAAA C
I-IO'TA	2926	C	FRO	297	42.147	49.323	54.997	1.00 62.72	AAAA O
HOTA	2827	11	CYS	298	42.039	47.135	55.073	1.00 63.85	AAAA II
ATOH	2829	CA	CYS	298	43.161	46.953	55.248	1.00 54.47	AAAA C
ATOH	2830	С	CYS	298	44.109	47.303	53.908	1.00 54.56	AAAA C
ATOH	0831	0	CYS	298	43.621	47.030	52.820	1.00 54.83	AAAA O
ATOH	2932	CB	CYS	298	43.665	45.544	55.669	1.00 47.65	AAAA C
ATCH	2833	SJ	CYS	298	43.501	45.115	57.371	1.00 46.12	AAAA S
ATOH	2834	11	PRO	299	45.310	47.876	53.967	1.00 49.83	AAAA II
HOTA	2835	CD	PRO	299	46.087	48.168	55.194	1.00 48.14	AAAA C
	2836	CA	FRO	299			52.787	1.00 43.67	AAAA C
ATOI-1					46.055	48.212			
ATOH	2837	CB	PRO	599	47.2€7	48.965	53.281	1.00 44.08	AAAA C
ATOI!	2838	CG	PRO	299	47.454	48.361	54.628	1.00 51.39	AAAA C
ATOH	2839	C	PRO	299	46.341	46.969	52.010	1.00 38.86	AAAA C
								1.00 42.85	AAAA O
ATOH	2840	0	PRO	299	46.372	45.874	52.546		
HOTA	2841	11	LYS	300	46.310	47.073	50.712	1.00 38.30	II AAAA
ATOI1	2843	CA	LTS	300	46.484	45.958	49.812	1.00 42.62	AAAA C
ATOH	2844	CB	LïS	300	45.176	45.226	49.595	1.00 34.28	AAAA C
ATOH	2845	CG	LTS	300	45.346	43.901	48.920	1.00 41.45	AAAA C
I IOTA	2846	CD	LYS	300	44.013	43.413	48.378	1.00 48.31	AAAA C
HOTA	2847	CE	LTS	300	44.389	42.027	47.737	1.00 48.57	AAAA C
ATOH	2848	HS	LYS	300	43.662	42.031	46.478	1.00 63.70	AAAA II
HOTA	2852	Ċ	LTS	300	46.564	46.479	48.432	1.00 48.72	AAAA C
HOTA	2853	0	LTS	300	46.413	47.383	47.776	1.00 46.09	AAAA O
ATOL	2854	11	VAL	301	48.150	45.984	48.054	1.00 40.15	II KAAA
								1.00 44.52	AAAA C
ATON	2856	CA	VAL	301	48.800	46.462	46.871		
ATCH	2857	CB	VAL	301	50.292	46.729	47.074	1.00 51.52	AAAA C
ATOI:1	2858	CG1	VAL	301	51.008	47.200	45.796	1.00 43.07	AAAA C
HOTA	2859	CG2		301	50.495	47.794	49.141	1.00 49.50	AAAA C
	2860							1.00 44.59	AAAA C
ATOH		Ċ	VAL	301	48.526	45.410	15.837		
HOTA	2861	O.	VAL	301	48.913	44.291	46.060	1.00 43.70	AAAA O
ATOM	2862	11	CYS	302	47.910	45.816	44.718	1.00 47.98	AAAA II
ATOH!	2864	CA	CYS	302	47.645	44.735	43.739	1.00 55.19	AAAA C
	2865							1.00 57.64	AAAA C
ATO!!		C	CYS	302	48.594	44.968	42.583		
HOTA	2966	0	CYS	302	48.852	46.152	42.313	1.00 60.23	AAAA O
ATOH:	2867	CB	CYS	302	46.186	44.630	43.330	1.00 68.30	AAAA C
ATOH	2868	SG	CYS	300	45.070	44.360	44.751	1.00 70.31	AAAA S
									AAAA II
ATON	2869	11	GLU	303	49.183	43.921	12.075	1.00 58.15	
ATOH	2871	CA	GLU	393	50.174	43.932	41.034	1.00 62.85	ANAA C
ATC! I	2872	CB	GUU	303	51.603	44.006	11.595	1.00 67.85	AAAA C
ATOII	2873	CG	GLU	303	51.760	43.487	43.014	0.01 67.46	AAAA C
									AAAA C
ATOH	2874	CD.	GLU	303	51.999	41.990	43.097	0.01 67.91	
ATOI1	2075	OE1	GLU	303	53.011	41.514	42.561	0.01 67.67	AAAA O
ATOH	2976	OE2	GLU	303	51.147	41.290	43.697	0.01 67.65	AAAA O
ATON	2877	c	GLU	303	50.096	42.662	40.194	1.00 64.12	AAAA C
									AAAA O
ATOH	2878	0	GLU	303	50.162	41.562	10.708	1.00 65.08	
ATOH:	2979	11	GLU	304	49.867	42.794	38.904	1.00 67.37	II AAAA II
ATO! 1	2881	CA	GLU	304	49.672	41.583	38.094	1.00 74.63	AAAA C
ATOH	2882	CB.	GLU	304	48.285	41.596	37.458	1.00 71.71	AAAA C
ATOI1	2983	CG	らしい	301	47.339	42.663	39.031	1.00 84.54	AAAA C
ATOH	2884	CD	GLU	304	45.930	42.152	38.195	1.90 87.56	AAAA C
HOTA	2885	051		304	45.438	41.571	37.179	1.00 89.13	AAAA O
ATCH	2896	OE2					39.233	1.00 93.19	AANA O
				304	45.249	42.269			
1 IOTA	2887	Ç	GLU	304	50.966	41.307	37.190	1.00 76.10	AAVA C
λτοн	2888	O	GLU	304	51.911	41.962	37.217	1.00 74.78	O ANN

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ATOH	2989	n glu	305	50.899	40.126	36.566	1.00 77.31	AAAA II
ATO!	2991	CA GLH	305	\$1.932	39.656	35.674	1.00 75.96	AAAA C
ATON	2832	CB GLU	305	51.467	38.380	34.970	1.00 79.95 1.00 87.28	AAAA C AAAA C
ATOH	2063	CD GLU	305 305	50.307 51.758	37.937 35.891	33.897 32.886	0.01 83.39	AAAA C
ATON	5862 5864	OD GLU OB1 GLU	305	50.762	36.234	33.252	0.01 83.66	O AAAA
ATOH ATOH	2866	OEC GLU	305	52.310	36.700	31.790	0.01 83.73	AAAA O
ATOL	2497	C GLU	305	52.276	40.737	34.666	1.00 75.97	2 KAAA
ATOLL	2998	o GLU	305	53.381	41.268	34.613	1.00 76.54	AAAA O
11OTA	5600	H LTS	306	51.291	41.181	33.88:	1.00 78.22	AAAA II
ATC!!	2991	CA LIS	306	51.479	42.329	33.004	1.00 75.99 1.00 79.78	AAAA C AAAA C
TO:	3902	CB LYS	306 306	50.467	42.253	31.955	1.00 94.52	7,444
ATCH	5904 5903	CD LYS	306 306	51.208 50.313	42.227	29.314	1.00 92.78	AAAA C
ATOH ATOH	2905	CE LTS	306	50.740	13.227	28.261	1.60 97.10	AAAA C
ATOH	2906	HC LYS	306	50.938	44.554	28.929	1.00 84.87	II AAAA II
ATOH	2210	C LYS	306	51.381	43.669	33.703	1.00 73.85	AAAA C
ATOH	2911	O LTS	306	50.703	43.862	34.718	1.00 76.08	AAAA O
ATOH	2912	H LYS	307	52.000	44.700	33.186	1.00 71.15 1.00 69.45	AAAA C AAAA C
ATO!:	2914	CA LYS	307 307	51.934 53.022	46.053	33.692 33.008	1.00 79.64	2 AAAA
ATOM	2915	CB LYS	307	54.419	46.903 46.837	33.564	1.00 78.88	AAAA C
ATOH ATOH	2916 2917	CG LYS	307	55.257	48.084	33.374	1.00 85.84	AAAA C
ATOM	2918	CE LYS	307	55.708	48.215	31.924	1.00 97.07	AAAA C
ATOH	2919	NG LYS	307	54.649	48.840	31.067	1.00 97.80	II AAAA II
HOTA	2923	C LYS	307	50.562	46.716	33.525	1.00 67.97	AAAA C
HOTA	2924	O LYS	307	50.010	47.369	34.431	1.00 64.46	AAAA O AAAA !!
HOTA	2925	II THR	308	49.979	46.661	32.323	1.00 65.84	AAAA C
HOTA	2927	CA THR	308	48.709	47.319 47.977	30.711	1.00 59.91	AAAA C
ATOH	2028 2029	CB THR OG1 THR	308 308	48.714 49.834	48.943	30.577	1.00 61.97	AAAA O
ATON ATON	2931	CG2 THR	308	47.392	48.742	30.561	1.00 63.64	AAAA C
ATOII	2932	C THR	308	47.514	46.379	32.234	1.00 61.82	AAAA C
ATOH	2933	O THR	308	47.412	45.415	31.477	1.00 62.05	AAAA O
ATOH	2934	H LYS	309	16.675	46.719	33.211	1.00 55.66	II AAAA II O AAAA
ATOH	2936	CA LYS	309	45.456	45.926	33.445	1.00 54.67 1.00 56.82	AAAA C
ATOH	2937	CB LYS	309	45.043 43.601	45.880 45.541	34.904 35.223	1.00 57.50	AAAA C
HOTA	2938 2939	CG LYS	309 309	43.390	44.039	35.086	1.00 59.50	AAAA C
ATOH	2940	CE LYS	309	42.703	43.448	36.324	1.00 57.31	AAAA C
ATOH	2941	HE LYS	309	42.758	41.954	36.236	1.00 57.22	II AAAA
HOTA	2945	C LYS	309	44.391	46.570	32.548	1.00 51.21	AAAA C
HOTA	2946	O LYS	309	44.074	47.763	32.680	1.00 47.23	AAAA O AAAA II
NOTA	2947	H THR	310	43.895	45.772	31.610	1.00 47.67 1.00 51.89	AAAA C
ATOH	2949	CA THR	310 310	42.862 43.161	46.328 46.015	30.733 29.266	1.00 54.81	AAAA C
ATOH	2950 2951	CB THR OG1 THR	310	41.909	45.710	28.635	1.00 66.29	AAAA O
ATOH ATOH	2953	CG2 THR	310	44.032	44.791	29.139	1.00 55.18	AAAA C
ATOH	2954	C THR	310	41.468	45.841	31.117	1.00 51.15	AAAA C
ATOH	2955	O THR	310	41.162	14.680	30.991	1.00 49.27	O AAAA
ATOH	2956	H ILE	311	40.684	46.706	31.732	1.00 50.18	II AAAA C AAAA
aton	2958	CA ILE	311	39.363	46.453	32.276	1.00 48.67	AAAA C
ATOH	2959	CB ILE	311	39.120 37.655	47.396 47.596	33.462 33.709	1.00 50.72	AAAA C
ATOH ATOH	2960 2961	CG2 ILE	311 311	39.896	46.930	34.300	1.00 41.34	AAAA C
ATON	2962	CD1 ILE	311	39.847	48.073	35.739		AAAA C
A'TOI I	2963	C ILE	311	38.334	46.729	31.186	1.00 45.37	AAAA C
ATOH	2964	O ILE	311	38.132	47.875	30.758	1.00 37.14	AAAA O
HOTA	2965	II ASP	312	37,971	45.678	30.524	1.00 50.10 1.00 56.35	AAAA D
ATOH	2967	CA ASP	312	36.991	45.842	29.377 29.128	1.00 59.45	AAAA C
ATOH	2968 2969	CB ASP	312 312	37.546 37.761	45.152 43.671	28.392	1.00 65.64	AAAA C
ATOH HOTA	2970	CG ASP	312	38.525	43.034	27.636	1.00 72.60	O AAAA O
HOTA	2971	OD2 ASE	312	37.154	43.176	29.348	1.00 66.86	O AAAA
ATOH	2972	C ASP	312	35.589	45.337	29.693	1.00 59.39	AAAA C
HOTA	2973	O ASP	312	34.729	45.007	28.867	1.00 61.00	AAAA O AAAA II
HOTA	2974	II SER	313	35.278	45.290	30.976	1.00 61.17 1.00 55.73	AAAA C
ATON	2976	CA SER	313	34.053	44.683	31.459 31.093	1.00 48.22	AAAA C
ATON	2977	CB SER	313 313	34.121 34.373	43.291 42.514	32.282	1.00 57.89	AAAA O
ATOH	2978 2980	OG SER	313	33.998	44.818	32.911	1.00 57.87	AAAA C
HOTA	2981	O SER	313	34.802	45.506	7 ڈ 5 . ذ و	1.00 66.17	AAAA Q
ATOH	2982	II VAL	314	33.001	44.005	345. د د		AAAA II
ATOH	2984	CA VAL	314	32.940	44.305			0 AAAA 0 AAAA
ATOH	2985	CB VAL	314	31.360	44.340		1.00 69.57	D AAAA
ATOH	2986	CG1 VAL	314	31.024	43.693			AAAA C
ATOH	2997	CG2 VAL	314	30.927	45.823 43.088			AAAA C
ATOH	2988	C VAL	314	33.492 34.029	43.050	35.704		AAAA O
ATOH	2989 2989	O VAL	314 315	33.468				AAAA II
ATOH ATOH	2992	CA THR	315	34.029			1.00 63.44	AAAA C
NTOIL	2993	CH THR	315	33.618	39.628	34.314	1.00 65.54	AAAA C
ATOH	5664	001 THR	315	32,403	40.004			O AAAA O AAAA
ATOH	2996	CG2 THR	315	33.339				AAAA C
ATOI1	2997	C THR	315	35.541	40.971	35.323	1.00 00.00	1 4 4 W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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ATOH	5058	o	THE	315	36.217	10.339	30/58 36,206	: 10	66.41	AAAA O
ATOH	5646	11	SF.R	316	36.071	41.593	34.332	1.00	63.28	AAAA II
ATON	3001 3002	CA	SF.R SER	316 316	37.500 37.795	41.793	34.215 32.900		58.72 52.20	AAAA C
ATOU	3003	0-3	SER	316	37.298	13.859	32.933		18.01	AAAA O
ATOH ATOH	3005 3006	Č.	SER SER	316 316	38.077	42.573	35.387		58.91	AAAA C
ATOU	3000	11	ALA	317	39.293 37.310	42.522	35.520 36.111		59.86 55.86	0 AAAA 11 AAAA
ATO:	3009	CV	ALA	317	37.750	44.194	37.191	1.90	57.17	AAAA C
ATOH ATOH	3011	C9	ALA ALA	317 317	36.933 37.689	45.409 43.487	37.269 38.539		54.23 62.05	AAAA C AAAA C
ATOH	3012	C	ALA	317	37,702	44.128	39.599	1.00	60.30	aaaa o
ATOH	3013 3015	:I CA	GLII GLII	319 319	37.361	42.205	38.523		67.91 70.72	AAAA C
ATOH	3016	CB	GLI:	318	37.195 36.857	41.380 39.956	39.713 39.293		74.48	AAAA C
ATOH	3017	CG.	GLI!	319	36.624	38.947	46.383		89.82	AAAA C
ATON: ATON	3018 3019	CD OE1	GLII GLII	318 318	35.265 34.256	39.080 38.807	40.391		92.69 98.57	AAAA C
ATOH	3020	HE2	GLN	318	35.356	39.509	42.308	1.00	92.51	AAAA II
HOTA	3023 3024	0	GLH GLH	318 318	38.380 38.294	41.413	40.653 41.804		72.63 68.92	AAAA C
ATOH	3025	11	HET	319	39.562	41.062	40.153		75.18	AAAA II
ATOH!	3027	CA	HET	319	10.946	41.175	40.826		71.85	AAAA C
ATON: ATON	3028 3029	CB CG	MET	319 319	41.950 41.740	40.960 39.644	39.772 39.050		82.00 91.16	AAAA C
HOTA	3030	SD	HET	319	43.123	38.482	39.185	1.001	106.72	AAAA S
ATOH ATOH	3031 3032	CE CE	HET	319 319	42.486	37.105 42.509	38.231 41.471		97.56 67.68	AAAA C
ATOH	3033	ō	MET	319	11.517	42.541	42.613		69.73	AAAA O
ATON	3034 3036	(I Ca	LEU	320	40.740	43.639	40.887		62.95	AAAA II
ATOH ATOH	3037	CA CB	LEU	320 320	40.907	44.938	41.531		62.31 54.93	AAAA C AAAA C
ATON	3038	ÇĞ.	LEU	320	41.091	46.163	39.238	1.00	53.48	AAAA C
HOTA	3039 3040	CD1		320 320	41.005 42.557	47.552 45.709	38.692 39.403		51.31 58.43	AAAA C
ATOH	3041	S	LEU	320	40.209	45.008	42.881		60.30	AAAA C
ATOH	3042 3043	0	LEU GLH	320 321	40.344	45.969	43.661		58.72 59.62	0 AAAA 11 AAAA
ATOH	3045	CA	GLII	321	38.492	44.106	43.112		63.50	AAAA C
ATOH	3046	CB	GLH	321	37.373	43.089	44.250		62.52	AAAA C
ATON ATON	3047 3048	CG	GLN GLN	321 321	36.611 35.337	42.854 42.064	45.522 45.291		56.83 68.77	AAAA C
HOTA	3049	OE1		321	35.362	40.969	44.719	1.00	70.37	AAAA O
ATOH ATOH	3050 3053	NE2 C	GLII	321 321	34.218 39.367	42.632	45.764 45.594		63.77	AAAA C
HOTA	3054	ō	GLH	321	40.262	43.196	45.782		57.29	AAAA O
ATOH	3055 3057	II CA	GLY GLY	322 322	39.092	44.928	46.546		57.62 60.63	AAAA II AAAA C
ATON	3058	Ç.	GLT.	322	39.955 41.126	44.928 45.773	47.790 47.812		61.78	AAAA C
ATOM	3059	O	GLT	322	41.564	46.198	48.889		60.16	AAAA O
ATOH	3060 3062	CA CA	CYS	323 323	41.719	46.124 46.845	46.676 46.528		60.03 54.20	AAAA H AAAA C
ATOH	3063	\mathcal{C}	CL3	323	42.924	48.307	46.910	1.00	53.48	AAAA C
ATON	3064 3065	O €B	CYS CYS	323 323	42.105 43.458	49.148	46.503 45.096		56.43 53.33	AAAA C
ATO!!	3066	SG		323		45.222	44.248			AAAA S
ATOH	3067	11	THR	324	43.994	48.718	47.58)		49.83	AAAA II
ATOH HOTA	3069 3070	CA CB	THR THR	324 324	44.164 44.623	50.161	47.811		52.29	AAAA C AAAA C
ATCH	3071	OG1		324	45.245	49.087	49.634		59.82	AAAA O
ATON ATON	3073 3074	CG2 C	THR	324 324	43.432	50.517	50.193 46.844		48.91	AAAA C
ATOM	3075	0	THR	324	45.277	52.016	46.710	1.00	46.90	AAAA O
ATOH ATOH	3076 3078	II CA	ILE ILE	325 325	46.021 47.114	49.963 50.511	46.254 45.445		46.87 45.19	AAAA C
HOTA	3079	CB.	ILE	325	48.473	50.577	46.183	1.00	43.60	AAAA C
ATOH ATOH	3080 3081	CG2		325	49.586	50.905	45.163 47.294		47.47 34.03	AAAA C
ATOH	3082	CDI		325 325	48.394 49.595	51.623 52.010	47.294		41.94	AAAA C
HOTA	3983	C	ILE	325	47.265	49.642	44.229		42.88	AAAA C
ATOH ATOH	3094 3095	() 	I LE	325 326	47.406 47.170	48.429 50.238	44.469 43.042		42.99	AAAA O
HOTA	3087	CA	PHE	326	47.312	49.334	41.880	1.00	42.98	AAAA C
ATOH ATOH	3088 3089	CB CG	PHE PHE	326 326	46.166	49.437	40.877 39.738		39.15 38.03	AAAA C AAAA C
ATOH	3090	CD1		326	46.186	47.125	39.951	1.00	39.68	AAAA C
HOTA	3091	CD2		326	46.917	48.892	38.525		37.31	AAAA C
aton Aton	3092 3093	CE1		326 326	46.447 47.136	46.139 47.919	39.023 37.551		36.52 45.74	AAAA C
HOTA	3094	CZ	SHE	326	46.924	46.570	37.787	1.00	39.92	AAAA C
ATOH ATOH	3095 3096	о С	PHE PHE	326 326	48.682 49.024	49.673 50.826	41.290 40.966		48.78 51.39	O KAAA
ATOH	3097	11	LVS	327	49.623	48.751	41.379	1.00	50.22	AAAA II
ATOU	3099	CA	LTS	327	50.964	49.963	40.831		51.49	AAAA c
ATOH	3100	CB	LïS	327	52.050	48.091	41.519	1.00	58.64	·~~~

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ATOU	3101 C3 LYS	327	53.254	48.997	41.991	1.00 59.15	AAAA C
ATOH!	3102 CD LY3	327	54.528	48.257	41.617	1.00 63.49	AAAA C C AAAA
HOTA	3103 CE LYS	327	55.400	48.951	10.592	1.00 68.12	AAAA II
ATOU	3104 HZ LY3	327	56.260	17.889	39.938	1.00 71.97	AAAA C
ATOH	3108 C LYS	327	50.895	18.464	39.391 39.127	1.00 49.55	AAAA O
INTA	3109 O LYS 3110 H GLY	327 328	50.901 50.760	47.245 49.397	38.502	1.00 39.68	AAAA II
ATCH ATCH	3110 H GLY 3112 CA GLY	328	50.647	19.038	37.080	1.00 39.44	AAAA C
ATOH	3113 C GLT	328	19.845	50.161	36.427	1.00 39.49	AAAA C
ATOI	3114 O GLY	328	49.858	51.307	36.881	1.00 31.92	AAAA O
ATON	3115 II ASII	329	49.286	49.813	35.209	1.00 41.47	AAAA II
ATCI-I	3117 CA ASH	329	48.467	50.750	34.543	1.00 45.72	AAAA C
ATO!1	3118 CB ASH	329	49.185	50.942	33.211	1.00 42.50	2 AAAA 2 AAAA
ATOI-1	3119 CG ASH	329	50.624	51.426	33.357	1.00 42.26	AAAA O
ATON	3120 OD1 ASH	329	50.954	52.331 50.769	34.156 32.530	1.00 30.62	AAAA II
ATOH	3121 HD2 ASH 3124 C ASH	329 329	51.425 47.038	50.207	34.357	1.00 50.37	AAAA C
ATCII ATCII	3124 C ASH 3125 O ASH	329	46.736	49.015	34.119	1.00 50.17	AAAA O
HOTA	3126 H LEU	330	46.090	51.143	34.413	1.00 47.13	AAAA II
ATOH	3128 CA LEU	330	44.691	50.860	34.151	1.00 42.53	AAAA C
ATCH1	3129 CB LEU	330	43.751	51.530	35.153	1.00 42.84	AAAA C
ATOH:	3130 CG LEU	330	43.768	50.995	36.598	1.00 38.65	AAAA C AAAA C
ATOH	3131 CD1 LEU	330	42.864	51.924	37.417	1.00 38.74	AAAA C
ATOI	3132 CD2 LEU	330	43.283	49.565 51.377	36.669 32.758	1.00 39.10	AAAA C
ATOH	3133 C LEU 3134 O LEU	330 330	44.352 44.509	52.545	32.460	1.00 40.71	AAAA O
I 1OTA	3134 O LEU 3135 H LEU	331	43.933	50.516	31.904	1.00 36.10	II AAAA
ATOM	3137 CA LEU	331	43.367	50.869	30.625	1.00 43.10	aaaa c
ATO!	3138 CB LEU	331	43.958	49.894	29.585	1.00 42.29	aaaa c
ATCH	3139 OG LEU	331	43.301	49.960	28.221	1.00 40.89	AAAA C
ATOH	3140 CD1 LEU	331	43.501	51.319	27.627	1.00 46.64	AAAA C
ATOH	3141 CD2 LEU	331	43.844	48.834	27.367	1.00 48.76	aaaa c aaaa c
ATON	3142 C LEU	331	41.872	50.568	30.705	1.00 41.12	O AAAA
ATOM	3143 O LEU	331	41.562 41.029	49.365 51.566	30.779 30.862	1.00 41.13	AAAA II
ATOH	3144 H ILE 3146 CA ILE	332 332	39.606	51.241	31.044	1.00 36.90	AAAA C
ATOH ATOH	3147 CB ILE	332	38.885	52.085	32.076	1.00 34.77	AAAA C
ATOH	3148 CG2 ILE	332	37.413	51.612	32.195	1.00 34.66	AAAA C
ATOI:	3149 CG1 ILE	332	39.550	51.895	33.452	1.00 33.64	AAAA C
ATOM	3150 CD1 ILE	332	39.479	53.152	34.337	1.00 48.21	AAAA C
ATOM	3151 C ILE	332	38.959	51.367	29.688	1.00 34.03	AAAA C AAAA O
ATOH	3152 O ILE	332	38.867	52.489	29.200	1.00 35.89 1.00 35.25	AAAA N
ATOM	3153 H ASH	333	38.569	50.273	29.094 27.737	1.00 40.34	AAAA C
ATOM	3155 CA ASU 3156 CB ASU	333 333	38.014 38.960	50.283 49.499	26.797	1.00 50.50	AAAA C
ATOH ATOH	3156 CB ASN 3157 CG ASN	333	38.668	49.493	25.310	1.00 59.29	AAAA C
ATON	3158 OD1 ASH	333	37.845	48.711	24.784	1.00 64.54	AAAA O
HOTA	3159 IID2 ASII	333	39.290	50.350	24.467	1.00 45.83	II AAAA
ATOH	3162 C ASH	333	36.566	49.591	27.755	1.00 47.63	AAAA C
ATOL	3163 O ASH	333	36.462	48.409	27.398	1.00 44.40	AAAA O
ATO!:	3164 II ILE	331	35.644	50.213	28.315	1.00 54.13	II AAAA C AAAA
ATOH:	3166 CA ILE	334	34.332	49.537	28.460	1.00 59.07 1.00 61.98	AAAA C
ATON	3167 CB ILE	334	33.788	49.826	29.876 30.047	1.00 54.04	AAAA C
ATOH	3168 CG2 ILE	334	32.362	49.355	30.047	1.00 60.43	AAAA C
ATO!!	3169 CG1 ILE 3170 CD1 ILE	334 334	34.737 34.346	49.687	32.317	1.00 68.57	AAAA C
ATOH ATOH	3170 CDI 1LE	334	33.271	50.032	27.476	1.00 59.45	AAAA C
ATON	3172 O ILE	334	32.726	51.136	27.635	1.00 56.22	AAAA O
ATOH	3173 N ARG	335	32.919	49.181	26.550	1.00 59.69	AAAA II
ATOM	3175 CA ARG	335	31.910	49.567	25.573	1.00 73.93	AAAA C
1fOTA	3176 CB ARG	335	32.262	48.903	24.240	1.00 74.44	аааа с аааа с
A.TOH	3177 CG ARG	335	33.729	48.932	23.918	1.00 82.97 1.00 86.49	AAAA C
ATOH	3178 CD ARG	335	34.102	49.289	22.500 21.777	1.00 89.93	AAAA II
ATOH	3179 HE ARG	335 335	34.361 34.011	48.040 47.838	20.496	1.00 93.67	AAAA C
ATOH	3181 CC ARG 3182 UH1 ARG	335	33.409	48.852	19.843	1.00 87.24	II AAAA II
ATOH ATOH	3182 HH1 ARG 3185 HH2 ARG	335	34.256	46.674	19.877	1.00 75.31	II AAAA II
ATOH	3188 C ARG	335	30.492	49.233	26.021	1.00 81.52	AAAA C
ATOH	3189 O AKG	335	29.664	50.115	26.239	1.00 84.11	AAAA O
ATOH	3190 II ALA	336	30.208	47.953		1.00 87.51	AAAA II
ATOH	3192 CA ALA	336	28.878	47.484	26.601	1.00 92.40	AAAA C AAAA C
ATOH	3193 CB ALA	336	28.835	45.980		1.00 94.03 1.00 96.61	AAAA C
ATOH	3194 C ALA	336	28.479	48.059		1.00 96.96	AAAA O
HOTA	3195 O ALA	336 337	29.316 27.298	48.019 48.685		1.00 99.74	AAAA II
ATOH	3196 U GLY 3198 CA GLY	337 337	26.986	48.685		1.00103.11	AAAA C
HOTA HOTA	3198 CA GLY 3199 C GLY	337	25.568	49.303		1.00105.51	AAAA C
HOTA	3200 O GLT	337	24.801	50.267		1.00106.64	AAAA O
ATOH	3201 II ASII	338	25.243	48.146		1.00105.41	II AAAA
ATOH	3203 CA ASII	338	23.886	48.017	30.908	1.00106.92	AAAA C
ATOH	3204 CB ASH	338	23.714	46.689		1.00109.14	AAAA C
ATON	3205 CG ASH		24.403	15.511		1.00112.30	AAAA C AAAA O
ATOH	3206 OD1 ASH		25.598	45.595		1.00117.94	AAAA II
ATON	3207 HD2 A3H		23.604	44.508		1.00105.84	AAAA C
ATCH	3210 C ASN	338	23.790	49.160	, ,1.731	1.55165.54	

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ATC:1	3211	0	ASII	338	23.544	50.345	31.739	1.00103.97	O AAAA
ATOH	3212 3214	U €A	HEA HEA	339 339	24.290 24.529	48.762	33.099 34.159	1.00105.47	AAAA D
ATOH	3215	C9	ASII	339	03.050	49.915	34.945	1.00109.15	AAAA C
HOTA	3216 3217	CG OD1	ASII ASII	339 339	22.777 22.715	51.351 51.931	35.003 36.089	0.01107.52 0.01107.49	AAAA C AAAA O
ATCH	3218	HDC	ASII	330	22.441	51.932	33.859	0.01107.46	AAAA II
ATOH ATOH	3221	c o	ASII ASII	339 339	25.697	49.237	35.007	1.00106.33	C AAAA O
ATOM	3223	μ	ILE	340	25.520 26.897	48.399	35.886 34.510	1.00108.82 1.00101.36	AAAA II
ATON	3225	CA.	ILE	340	29.136	49.101	35.139	1.00 97.43	AAAA C
ATOH ATOH	3226 3227	CB CGC	ILE ILE	340 340	29.040 28.194	48.354 47.252	34.151 34.151	1.00 93.63 1.00 99.38	AAAA C AAAA C
ATC:1	3008	CG1	ILE	340	29.726	19.158	33.070	1.00 85.50	AAAA C
ATOH ATOH	3229 3230	CDI	ILE ILE	340 340	28.897 28.783	49.634 50.357	31.915 35.706	1.00 92.53 1.00 95.32	AAAA C AAAA C
ATOH	3231	0	ILE	340	29.472	51.099	34.997	1.00 97.86	AAAA O
ATOH	3232	11	ALA	341	28.409	50.739	36.915	1.00 89.89	AAAA II
ATON ATON	3234 3235	CB CY	ALA ALA	341 341	28.892 28.068	52.008 53.201	37.450 37.006	1.00 88.45 1.00 84.56	AAAA C AAAA C
ATCH	3236	Ċ	ALA	341	28.786	51.968	38.970	1.00 85.37	AAAA C
ATOH ATOH	3237 3238	11 O	ALA SER	341 342	28.910 28.204	52.935 50.877	39.690 39.386	1.00 86.09	O AAAA II AAAA
ATOM ATOM	3240	CA	SER	342	27.910	50.601	40.780	1.00 82.05	AAAA C
ATOM	3241	CB	SER	342	26.426	50.667	41.112	1.00 85.51 1.00 86.02	AAAA C AAAA O
ATOH ATCH	3242 3244	OG Ç	SER SER	342 342	26.145 28.487	51.271 49.196	42.361 40.965	1.00 76.62	AAAA C
ATC: 1	3245	O	SER	342	29.119	48.966	41.964	1.00 71.76	AAAA O
ATOH ATOH	3246 3248	II CA	GLU GLU	343 343	28.373 29.301	48.409	39.905 39.820	1.00 76.23 1.00 74.59	AAAA D
ATOH	3249	CB	GLU	343	28.595	46.300	38.616	1.00 78.52	AAAA C
ATOH ATOH	3250	CG	GLU	343	27.118	46.105	38.316	1.00 85.33 1.00 92.76	AAAA C AAAA C
ATOH	3251 3252	OE1	GLU GLU	343 343	26.898 27.209	45.121 43.911	37.169 37.310	1.00 96.41	AAAA O
ATOH	3253		GLU	343	26.423	45.517	36.082	1.00 98,55	AAAA O
ATOH ATOH	3254 3255	С 0	GLU GLU	343 343	30.525 31.273	47.319 46.787	39.804 40.637	1.00 77.75 1.00 75.73	AAAA C AAAA O
ATOH	3256	11	LEU	344	31.022	48.237	38.966	1.00 75.65	II AAAA II
ATOH ATOH	3258 3259	CA CB	LEU LEU	344	32.415	48.596	38.839	1.00 72.36 1.00 64.33	АААА С АААЛ С
ATON	3260	03	LEU	344 344	32.760 32.687	49.697 49.397	37.808 36.311	1.00 50.12	AAAA C
ATOM	3261		LEU	344	33.224	50.577	35.519	1.00 57.00	AAAA C
HOTA	3262 3263	CD5	LEU	344 344	33.401 32.963	48.127	35.905 40.174	1.00 \$1.62 1.00 69.74	AAAA C AAAA C
ATOH	3264	O	LEU	344	34.079	48.739	40.551	1.00 69.12	O AAAA
ATOH ATOH	3265 3267	N CA	GLU GLU	345 345	32.166 32.555	49.959 50.591	40.822 42.061	1.00 63.10	11 AAAA C 2 AAAA
ATOH	3268	CB	GLU	345	31.592	51.714	12.478	1.30 55.59	AAAA C
ATCH	3269	CG	GLU	345	32.267	52.607	43.486	1.00 68.78	AAAA C AAAA C
ATOH ATOH	3270 3271	CD OE1	GLU GLU	345 345	31.324 30.614	53.374 54.320	44.376 43.976	1.00 81.31 1.00 85.60	AAAA O
ATOH	3272	OE2	GLU	345	31.237	53.078	45.595	1.00 88.79	AAAA O
ATOH ATOH	3273 3274	0	GLU	345 345	32.706 33.501	49.652	43.255 44.134	1.00 63.31 1.00 60.06	дааа с аааа о
ATOH	3275	ij	AEII	346	32.151	48.462	43.201	1.00 62.25	AAAA II
HOTA	3277 3278	CA CB	ASII ASII	346	32.285	17.403	44.173	1.00 63.92 1.00 61.66	AAAA C AAAA C
ATOH	3279	CG	ASII	316 316	31.024	45.292	45.006	1.00 58.73	AAAA C
HOTA	3280		ASH	346	31.188	45.352	46.224	1.00 69.11	AAAA O
ATOH ATOH	3281 3284	C C	ASII ASII	346 346	31.155 33.532	44.092 46.580	44.444	1.00 51.10 1.00 63.71	AAAA II AAAA C
ATOH:	3285	0	ASH	346	33.636	45.336	43.905	1.00 65.65	AAAA O
ATOH ATOH	3286 3288	CA	PHE	347 347	34.419 35.540	47.173	43.066 42.506	1.00 63.23 1.00 61.39	AAAA D
HOTA	3289	CB	PHE	347	35.123	45.854	41.179	1.00 61.38	AAAA C
ATOH HOTA	3290 3291	CG	PHE PHE	347 347	34.457	44.534	41.142	1.00 65.57 1.00 75.25	AAAA C AAAA C
ATOH	3292		PHE	347	33.090 35.148	44.43B	41.267	1.00 77.15	AAAA C
HOTA	3293		EHE	3.17	32.425	43.224	40.951	1.00 75.55	AAAA C AAAA C
ATOI!	3294 3295	CI	PHE	347 347	34.512 33.152	42.130	41.249 41.095	1.00 72.86	AAAA C
ATO!!	3296	C	FHE	3.17	36.712	47.375	42.440	1.00 57.70	AAAA C
HOTA	3297 3298	() []	PHE	347 348	37.770 36.482	46.820	42.354 42.319	1.00 59.92 1.00 50.56	C AAAA II AAAA
ATOH	3300	CA	HET	348 348	37.500	48.676	41.964	1.00 42.86	AAAA C
IKITA	3301	CB	HET	348	37.402	50.096	40.493	1.00 31.72	AAAA C
ATOH ATOH	3302 3303	CG SD	HET	348 348	37.426 37.566	48.933	39.471 37.732	1.00 33.42	AAAA S
ATOH	3304	CE	HET	348	38.408	50.999	37.791	1.00 59.57	AAAA C
ATOH	3305	C	T3H	318	37.368	50.831	42.867	1.00 45.88	AAAA C AAAA O
HOTA	3306 3307	0	HET GL:	31 <i>à</i> 340	38.210 36.296	51.772	42.901 43.683	1.00 45.30	AAAA II
ATOH	3309	CA	GLT	349	35.998	51.965	44.504	1.00 49.12	AAAA C
ATOH ATOH	3310 3311	C.	GLY	315 315	36.980 37.033	52.189 53.299	45.620 46.156	1.00 52.77	AAAA C AAAA O
					2				

							00/50		
ATON	3312	:1	LEU	350	7.701د	51.159	33/58	1.00 56.17	AAAA II
HOTA	3314	CA	LEU	350	39.735	51.256	47.021	1.00 58.04	AAAA C AAAA C
ATOH ATCH	3315 3316	08 09	LEU LEU	350 350	38.973 37.971	49.949. 50.020	47.834 19.031	1.00 49.00	AAAA C
NOTA	3317	CD1	LEU	350	37.705	48.680	49.700	1.00 52.92	AAAA C
atch atch	3318 3319	CD2	LEU LEU	350 350	38.247 40.144	51.106 51.727	50.038 46.685	1.00 56.11	AAAA C AAAA C
ATON	3320	ō	LEU	350	40.231	51.962	47.619	1.00 63.52	AAAA O
TOH	3321	11	ILE	351	40.446	51.677	15.370	1.00 57.89	II AAAA D B AAAA
ATCH HOTA	3323 3324	CB CB	ILE	351 351	41.729 41.814	52.088	44.573 43.352	1.00 48.69 1.00 48.19	AAAA C
ATOI1	3325	C:32	ILE	351	43.121	52.415	42.757	1.00 40.01	AAAA S
ATOH	3326 3327	CO1		351 351	41.535	50.418	43.058 41.581	1.00 36.87 1.00 36.46	AAAA C AAAA C
HOTA HOTA	3328	Ċ CDI	ILE	351	41.172 42.031	50.351 53.533	45.178	1.00 46.80	AAAA C
HOTA	3329	0	ILE	351	41.367	54.358	44.625	1.00 42.87	C AAAA
ATOLI ATOLI	3330 3332	II CA	GLU GLU	352 352	43.002 43.381	53.866 55.241	46.015 46.248	1.00 50.61 1.00 51.20	II AAAA II AAAA C
ATOH	3333	CB	GLU	352	43.907	55.353	47.678	1.00 52.12	aaaa c
TOTA	3334	CG	GLU	352	12,912	\$5.769	18.735	1.00 65.55 1.00 71.49	AAAA C AAAA C
ATOH ATOH	3335 3336	CD OE1	GLU	352 352	43.034 43.881	54.834 55.244	49.947 50.765	1.00 66.09	AAAA O
HOTA	3337	082	GLU	352	42.330	53.799	50.009	1.00 76.07	O AAAA
HOTA HOTA	3338 3339	C O	GLU GLU	352 352	44.502 44.798	55.751 56.951	45.314 45.182	1.00 47.43 1.00 40.38	AAAA C AAAA O
ATOH	3340	11	VAL	353	45.342	54.838	44.852	1.00 43.54	II AAAA
ATOH	3342	CA	VAL	353	46.512	55.236	11.078	1.00 43.71	AAAA C
ATON ATON	3343 3544	CB CG1	VAL	353 353	47.759 47.766	55.540 55.26i	44.911 46.387	1.00 45.01 1.00 30.84	AAAA C AAAA C
ATOH	3345	CG2	VAL	353	48.988	24.844	44.310	1.06 42.55	AAAA C
ATOH	3346	C	VAL	353	46.923	54.233	42.957	1.00 41.41	AAAA C AAAA O
ATOH ATOH	3347 3348) ()	VAL VAL	353 354	46.843 47.074	53.003 54.855	43.172	1.00 36.31	AAAA II
HOTA	3350	CA	VAL	354	47.586	54.092	40.651	1.00 43.97	AAAA C
ATOH ATOH	3351 3352	CB CG1	VAL VAL	354 354	46.725 47.347	54.390 53.896	39.407 38.123	1.00 40.86 1.00 36.72	O AAAA O AAAA
ATOH	3353	CGS		354	45.293	53.849	39.678	1.00 35.35	AAAA C
HOTA	3354	C	VAL	354	49.043	54.510	40.388	1.00 44.56 1.00 43.32	AAAA C AAAA O
ATOH ATOH	3355 3356	0	VAL THR	354 355	49.366 49.972	55.718 53.561	40.288 40.431	1.00 43.83	II AAAA
HOTA	3358	CA	THR	355	51.392	53.914	10.284	1.00 44.85	AAAA C
ATOM ATOM	3359 3360	OG1	THR THR	355 355	52.374 52.273	52.799 51.744	40.653 39.695	1.00 42.40	AAAA C AAAA O
ATON	3362	CG2		355	52.210	52.194	42.039	1.00 38.13	AAAA C
ATCH	3363	Ç	THR	355	51.746	54.339	38.851	1.00 43.84	AAAA C AAAA O
HOTA HOTA	3364 3365	O Ii	THR	355 356	52.463 51.127	55.334 53.704	38.697 37.870	1.00 44.26	AAAA II
ATOH	3357	CA	GLY	356	51.358	54.073	36.470	1.00 37.91	AAAA C
ATOH:	3368	Ċ	GLY	356 356	50.505	55.204	35.955 36.615	1.00 38.07 1.00 34.65	AAAA C AAAA O
atoh Atoh	3369 3370	O II	GLY TYR	357	50.364 49.910	56.261 55.004	34.800	1.00 38.47	II AAAA II
ATOH	3372	CA	TTR	357	48.982	55.973	34.205	1.00 38.03	AAAA C
ATOH ATOH	3373 3374	CB CB	TYR	357 357 ·	49.557 49.473	55.343 55.219	32.805 31.812	1.00 31.44 1.00 33.04	AAAA C AAAA C
ATCH!	3375	CDI	TYR	357	48.333	54.842	31.077	1.00 32.86	AAAA C
ATOH				357	48.352			1.00 32.83 1.00 34.28	AAAA C AAAA C
ATOH ATOH	3377 3378	CD2 CB2	TYR	357 357	50.639 50.706	54.465 53.402	31.606 30.720	1.00 32.51	AAAA C
ATOH	3379	CC	TïR	357	19.552	53.068	30.007	1.00 37.26	AAAA C
HOTA HOTA	3380 3382	OH .	TYR TYR	357 357	49.726 47.582	51.997 55.368	29.166 34.150	1.00 35.85 1.00 38.55	AAAA O AAAA C
ATOH	3383	o o	TYR	357	47.458	54.127	34.088	1.00 36.11	AAAA O
ATOH	3384	11	VAL	358	46.593	\$6.216	33.814	1.00 40.98 1.00 38.90	II AAAA C AAAA C
HOTA	3386 3387	CA CB	VAL VAL	358 358	45.197 44.211	55.798 56.500	33.639 34.610	1.00 49.15	AAAA C
ATOH	3388	CGI	VAL	358	42.815	\$5.883	34.484	1.00 33.12	AAAA C
HOTA	3389	CG2 C	VAL	358	11.748	56.437 56.194	36.043 32.234	1.00 29.20 1.00 35.64	O AAAA O AAAA
ATOH ATOH	3390 3391	ō	VAL VAL	358 358	44.760 44.792	57.358	31.885	1.00 34.58	AAAA O
ATOH	3392	11	LTS	359	44.387	55,188	31.461	1.00 36.00	II AAAA C AAAA
ATOH ATOH	3394 3395	CA CB	LYS LYS	359 359	43.999 44.845	55.419 54.707	30.117 20.174	1.00 41.27	AAAA C
ATOH	3396	CG.	LYS	359	44.340	54.473	27.770	1.00 45.19	AAAA C
ATOH	3397	CD	LYS	359	45.040	55.317	26.750	1.00 43.40	AAAA C AAAA C
ATOH ATOH	3399	CE	LYS	359 359	45.958 45.416	54.402 53.937	25.986 24.680	1.00 47.98	AAAA II
HOTA	3493	C	LYS	359	42.423	54.979	29.939	1.00 42.14	AAAA C
ATOH	3404	0	LYS	359	42.056	53.791	30.006	1.00 40.40	O AAAA II AAAA
ATOH ATOH	3405 3407	il CA	ILE	360 360	41.602 40.164	55.974 55.742	29.572	1.00 37.16 1.00 40.02	AAAA C
ATON	3408	CB	ILE	360	39.297	56.804	30.048	1.00 38.10	AAAA C
HOTA	3409		ILE	360	37.887	56.277	19.932	1.00 39.42 1.00 28.54	AAAA C AAAA C
ATOH	3410 3411		I LE	360 360	39.769 39.423	57.111 56.037	31.481 30.491	1.00 33.16	AAAA T
ATOH	3412	C	ILE	360	39.888	55.837	2".834	1.00 39.49	2 4444

34/58 3413 0 ILE 360 40.014 56.942 361 3:14 ARG 54.721 39.567 CA AR-5 3416 361 39.472 54.782 3417 C3 Aa.s 36 i 40.783 54.213

27.235 27.221 AAAA O 1.00 37.30 ATON AAAA I: 1.09 31.34 ATOH 25.744 AAAA C LISTA 1.00 41.24 1.00 47.92 AAAA C **ATCH** 25.148 HOTA AAAA 🤉 3418 CG ARG 361 40.805 1.00 50.39 54.203 23.646 AAAA C ATOH 3419 00 ARG 361 41.943 53.357 23.116 1.00 51.36 AAAA C 3420 ĦΞ ARG 351 41.473 1.00 50.97 ATOIL 51.974 23.263 ATOH 3422 C2 A8-1 361 42.297 50.962 23.490 1.00 55.78 AAAA II THE ARG 43.612 1.00 51.62 ATOH 3423 361 51.074 23.616 1.00 54.52 AAAA II LIOTA 3426 JIH2 ARG 351 41.834 19.719 23.631 25.246 AAAA C 1.00 42.06 ATCM: 3429 ARG 361 38.382 53.866 25.499 0 ARG 1.00 38.93 AAAA O ATO:: 3430 361 52.661 38.336 ATOH 3431 HIS 362 24.373 1.00 46.19 AAAA II 37.514 23.885 2 AAAA 2 AAAA 2 AAAA ATCH 3433 CA HIS 360 36.372 53.555 1.00 49.34 ATOH 3434 CB HIS 37.000 52,300 1.00 40.94 HOTA 3435 CO HIS 362 37.849 52.610 22.084 1.00 42.78 AAAA C 362 3436 CD2 HIS 53.765 21.411 1.00 48.32 HOTA 38.049 AAAA II 1.00 43.59 HOTA 3437 HOL HIS 362 38.528 51.676 21.469 1.00 46.01 AAAA C ATCH! 3439 CEI HIS 362 39.256 52.247 20.465 362 20.498 1.00 49.22 AAAA II ATON 3440 HES HES 38.923 53.515 1.00 50.32 AAAA C 362 35.295 ATC:1 3442 C HIS 53,113 24.913 24.795 1.00 41.31 AAAA O 3443 0 HIS 362 52.030 ATOH 34.686 AAAA II 363 53.875 26.013 1.00 46.96 3444 SER ATOH 1: 35.222 AAAA C 3446 CA SER 363 34.402 53.456 27.139 1.00 52.19 HOTA 3447 1.00 53.73 AAAA C ATOH CB SER 363 35.231 53.837 28.400 28.816 AAAA O 3448 363 35.713 52.558 1.00 41.72 ATO:: OG. SER 27.046 27.694 AAAA C C SER 363 33.005 54.972 1.00 49.09 ATON 3450 O AAAA ATOH 3451 Ω SER 363 32.653 55.040 1.00 37.49 AAAA !! 1.00 52.25 ATOH :452 11 HIS 364 32.243. 53.577 26.058 AAAA 25.717 1.00 83.66 30.954 54.173 53.937 364 ROTE 345.1 CA 1113 26.760 1.00 48.77 AAAA 3455 C 29.879 ATC:1 HIS 364 1.00 51.44 0 29.297 54.899 27.280 AAAA C ATOH 3456 HIS 364 1.00 49.83 AAAA C ATOH 3457 CB HIS 364 30.485 53.699 24.348 1.00 51.51 AAAA C HOTA 3458 C:3 HIS 364 31.493 54.182 23.338 1.00 44.83 3459 HD1 HIS AAAA II ATOH 364 31.870 55.502 23.156 AAAA C ATOH 3460 CE1 HIS 364 32.798 55.533 22.214 1.00 28.57 AAAA C HOTA 3461 CD2 HIS 364 32.194 53.393 22.472 1.00 38.62 AAAA II 1.00 41.44 HOTA 3462 HE2 HIS 354 32.992 54.274 21.810 AAAA N ATO!! 3464 11 ALA 365 29.949 52.819 27.427 1.00 47.53 29.211 1.00 44.41 AAAA C 3466 CA ALA 365 28.621 ATOH. 52.488 3467 CB ALA 29.678 29.150 1.00 40.28 AAAA C HOTA 365 51.133 1.00 44.70 3468 ALA 355 29.318 29.768 AAAA C ATOH. 53.473 3469 0 ALA 365 30.726 1.00 45.28 AAAA O ATOH 28.576 53.206 AAAA II ATOH 3470 11 LEU 366 30,158 54.517 29.762 1.00 40.80 1.00 42.21 AAAA C 3472 CA LEU 366 30.415 55.243 30.968 ATOH 1.00 43.78 3473 55.241 AAAA C ATOI1 CB LEU 366 31.885 31.350 3474 31.667 1.00 51.52 AAAA C ATO!! CG LEU 366 32.740 54.037 1.00 51.77 3475 CD1 LEU 366 34.192 54.373 32.043 ATON AAAA C 32.118 HOTA 3476 CD2 LEU 366 53.305 32.834 1.00 51.17 AAAA C 3477 1.00 46.36 ATOH LEU 366 29.974 56.687 30.896 AAAA O 3478 1.00 48.40 0 57.248 57.275 29.849 ATOH LEU 366 30.305 VAL. 32.015 1.00 43.68 FAAA II 3479 357 ATO: 1 11 29.521 алаа 367 29.972 58.675 1.00 44.18 3491 VAL 31.940 ATO!! CA VAL 1.00 48.80 AAAA ATOH 3482 CB 367 27.557 59.727 32.376 CG1 VAL 32.571 1.00 41.69 AAAA C 3483 367 26.923 60.073 ATOH CG2 VAL 1.20 34.00 AAAA C HOTA 3484 367 26.697 57.949 31.365 AAAA C 3485 VAL 367 29.923 32.845 1.00 44.90 ATCH 59.518 AAAA O HOTA 3486 0 VAL 367 29.965 60.751 32.720 1.00 44.75 AAAA 11 1.00 48.72 ATO11 3487 11 SER 368 30.591 58.818 33.757 34.742 AAAA C ATOH 3489 CA SER 368 31.487 59.465 1.00 52.70 36.000 1.00 55.32 AAAA C ATO:1 3490 CB SER 368 30.658 59.706 AAAA O 3491 369 60.298 37.091 1.00 64.86 ATOU OG SER 31.300 AAAA C 3493 С 368 32.590 58.497 35.179 1.00 52.76 ATOLL SER 3494 368 32.353 57.299 34.976 1.00 48.99 AAAA O ATOI 0 SER ATOH 3495 11 LEU 369 33.631 59.012 35.831 1.00 53.86 II AAAA II 36.274 1.00 60.15 AAAA C ATOH 3497 CA LEU 369 34.716 58.129 AAAA C ATOM 3498 CB LEU 369 36.073 58.630 35.784 1.00 55.91 1.00 45.96 AAAA C HOTA 3199 CG. LEU 369 58.736 34.271 36.325 AAAA 59.428 57.384 ATC// 3500 CDL LEU 350 37.569 34,154 1.00 39.77 AAAA. 36.207 ATOM 3501 CD2 1.511 360 33.619 37.811 1.00 62.52 AAAA 369 58.036 LEU ATOH 3502 34.645 AAAA 38.595 1.00 59.33 3503 0 LEU 369 57.700 ATOH 35.569 1.00 56.26 AAAA II 370 38.285 3504 33.437 58,401 SER ATCH 11 1.00 53.88 AAAA C 3506 58.431 39.690 CA 370 33.089 ATOH. SER 3507 370 31.673 59.052 39.816 1.00 57.50 AAAA C ATOL CB SER 1.00 69.12 39.261 AAAA O 3508 OG SER 370 30.771 58.061 ATOU AAAA C 370 57.085 49.412 1.00 47.27 ATO: 1 3510 SER 33.060 56.943 41.596 1.00 41.93 AAAA O ATOH 3511 SER 370 33.228 HOTA 3512 PHE 371 32.967 55.936 39.792 1.00 45.48 AAAA II ATOLL 3514 CA PHE 371 33.223 54.643 40.356 1.00 46.29 AAAA C 3515 371 32.952 53.596 39,297 1.00 43.53 AAAA C ATOH: CB PHE 3516 CG EHE 371 33.724 53.629 38.012 1.00 56.45 AAAA C ATON 37.764 AAAA C 3517 COL FHE 371 52.807 1.00 58.95 ATOH 34.805 1.00 53.92 AAAA C ATC11 3518 CO2 PHE 371 33.371 54.515 37.004 AAAA C 36.570 1.00 59.50 MOTI 3519 CEI PHE 371 35,498 52.842

				35/58					
ATCH	3520	CEC	3113	371	34.948	\$4.546	35.81	1.00 56.49	AAAA C
ATOH ATOH	3521 3522	c: C	PHE	371 371	35.119 34.654	53.716 54.467	35.570 40.895	1.00 56.39 1.00 54.84	AAAA C AAAA C
ATOH	3523	0	SHS	371	35.005	53.592	41.728	1.00 52.23	AAAA O
ATOH ATCH	3524 3526	CV II	LEU	372 372	35.633 36.928	55.305 55.395	40.510	1.00 50.17 1.00 46.25	AAAA :: AAAA C
ATCH	3527	CB	LEU	372	38.171	55.812	40.276	1.00 44.82	AAAA C
ATCH ATCH	3528 3529	COL	LEU	372 372	38.411 38.853	54.800 55.643	39.114 37.934	1.00 36.78 1.00 45.04	AAAA C AAAA C
ATOM	3530		LEU	372	39.260	53.657	39.565	1.00 35.55	AAAA C
ATCH	3531	C	LEU	372	36.715	56.392	42.213	1.00 42.26	AAAA C
ATOH	3532 3533); O	LEU LYS	372 373	37.224 35.970	57.507 55.862	42.364 43.192	1.00 38.37 1.00 47.06	O AAAA 11 AAAA
ATOI:	3535	CA	L73	373	35.527	56.509	44.415	1.00 50.19	AAAA C
ATON:	3536 3537	CB CG	LTS LTS	373 373	34.546 33.645	55.521 56.162	45.077 46.119	1.00 56.74 1.00 59.64	AAAA C AAAA C
ATO:	3538	CD	LTS	373	32.529	56.955	45.441	0.01 60.17	AAAA C
ATOI:	3539 3540	CE	LTS LTS	373 373	31.674	57.687	46.460 45.899	0.01 60.45 0.01 60.38	C AAAA H AAAA
ATOL	3544	C	LYS	373 375	31.083 35.546	58.933 56.863	45.366	1.00 49.72	AAAA C
ATO:	3545	0	LYS	373	36.636	57.960	45.907	1.00 42.42	AAAA O
ATOH ATOH	3546 3548	CA CA	ASH	374 374	37.657 38.765	55.986 56.352	15.513 46.410	1.00 54.43 1.00 59.92	II AAAA C
ATON	3549	СВ	ASH	374	39.080	55.154	47.314	1.00 63.16	AAAA C
ATOI I	3550 3551	CG	IIRA IIRA	374 374	38.009 37.892	54.978 53.972	48.396 49.096	1.00 64.53 1.00 66.40	AAAA C AAAA O
ATOH	3552		ASII	374	37.160	55.965	48.578	1.00 52.88	AAAA II
ATOH	3555	Ċ	ASH ASH	374 374	40.043	56.892	15.786	1.90 62.35 1.90 63.98	AAAA C AAAA O
ATOH ATOH	3556 3557	0	LEU	375	41.031 40.091	57.223 56.893	46.479 44.438	1.00 58.34	AAAA II
ATOH	3559	CA	LEU	375	41.305	57.374	43.795	1.00 54.73	AAAA C
HOTA	3560 3561	CB CG	LEU	375 375	41.099 42.396	57.359 57.422	42.288 41.459	1.00 56.41 1.00 54.12	AAAA C AAAA C
HOTA	3562	CD1	LEU	375	43.135	56.112	41.689	1.00 37.88	аааа с
HOTA HOTA	3563 3564	CD2	LEU	375 375	42.030 41.712	57.796 58.754	40.041 44.245	1.00 40.97 1.00 52.37	AAAA C AAAA C
ATOH	3565	Ö	LEU	375	41.151	59.777	43.877	1.00 52.37	AAAA O
ATOH	3566	11	ARG	376	42.801	58.874	44.982	1.00 55.16	AAAA C
ATON:	3568 3569	CA CB	ARG ARG	376 376	43.320 43.706	60.155 60.222	45.434 46.928	1.00 55.45 1.00 58.68	AAAA C
ATOLL	3570	CG	ARG	376	44.288	58.907	47.415	1.00 69.10	AAAA C
ATOH ATOM	3571 3572	CD	ARG ARG	376 376	44.286 45.377	58.817 57.926	48.944 49.410	1.00 81.17 1.00 84.46	AAAA C AAAA II
ATON:	3574	CS	ARG	376	46.618	58.380	49.598	1.00 85.64	AAAA C
ATOH:	3575 3578	11H1		376 376	46.966 47.571	59.645 57.548	49.383 50.012	1.00 81.84 1.00 94.15	11 AAAA 11 AAAA
ATOH	3581	C	ARG	376	14.556	60.544	44.633	1.00 50.16	AAAA C
ATC: 1 ATO! I	3582 3583	0	arg Leu	376 377	14.716	61.728 59.578	44.465	1.00 44.25 1.00 50.99	O AAAA II AAAA
ATCH	3585	CA	LEU	377	45.375 46.526	59.942	13.379	1.00 49.40	AAAA C
ATCH	3586	CB	LEU	377	47.596	60.411	44.329	1.00 64.72	AAAA C
ATOH ATOH	3587 3588	CG CD1	LEU LEU	377 377	48.806 50.031	59.577 30.157	44.667 43.954	1.00 70.76 1.00 63.32	AAAA C AAAA C
ATO!!	3589	CD2	LEU	377	49.010	59.696	46.179	1.00 68.60	AAAA C
ATOH	3590 3591	0	LEU	377 777	47.043 46.868	59.022 57.788	42.311 42.286	1.00 46.33 1.00 45.17	AAAA C AAAA C
ATOH	3592	11	ILE	378	47.448	59.675	41.199	1.00 45.12	H AAAA H
ATOM ATOM	3594 3595	CA CB	ILE	378 378	48.042 47.342	58.976	40.042 38.724	1.00 49.10 1.00 46.36	C AAAA C AAAA
ATON	3596		ILE	378	48.115	59.303 58.696	37.574	1.00 34.36	AAAA C
ATOH ATOH	3597 3598		ILE	378	45.871	58.862	38.829	1.00 38.59 1.00 37.18	AAAA C AAAA C
ATOH	3599	CD1	ILE	378 378	44.999 49.524	59.515 59.381	37.765 40.003	1.00 49.87	AAAA C
ATOM	3600	0	I LF.	378	49.801	60.595	40.040	1.00 44.72	AAAA O
ATOH ATOH	3601 3603	CA	LEU	379 379	50.454 51.866	58.423 58.712	40.067 40.344	1.00 49.97 1.00 48.48	AAAA C
ATOH	3604	CB	LEU	379	52.575	57.531	41.054	1.00 48.44	AAAA C
ATOH ATOH	3605 3606	CG	LEU	37 <u>9</u> 37 <u>9</u>	52.234 52.926	57.363 56.187	42.554 43.217	1.00 50.28 1.00 39.89	AAAA C AAAA C
ATOIL	3607		LEU	379	52.616	58.625	43.300	1.00 42.89	AAAA C
HOTA	3608	C	LEU LEU	379	\$2.609	59.019	39.080	1.00 50.94 1.00 54.23	AAAA C AAAA O
ATOH ATOH	3609 3610	0	CLY	379 380	53.576 52.175	59.788 58.423	39.139 37.972	1.00 48.67	AAAA II
ATOH	3612	CA	GLY	380	52.931	58.715	36.702	1.00 49.94	AAAA C
HOTA	3613 3614	0	GLY	380 380	54.249 55.026	58.155 58.657	36.624 35.803	1.00 52.70 1.00 49.94	AAAA C AAAA O
ATOH	3615	11	GLU	301	54.549	57.033	37.272	1.90 52.51	II AAAA
HOTA HOTA	3617 3618	CB CB	GLU GLU	381 381	55.849	56.386	37.243 38.323	1.00 52.33 1.00 45.22	AAAA C AAAA C
ATOH	3619	CG	GLU	381	56.055 55.402	55.310 55.779	39.636	1.00 52.91	AAAA C
ATOH	3620	CD	GLU	301	56.050	55.192	40.873	1.00 42.11	AAAA C
HOTA	3621 3622		ern ern	381 381	56.160 56.379	53,966 56,014	40.890 41.754	1.00 40.26 1.00 51.32	AAAA O AAAA O
ATOH	3623	C	GLU	391	56.978	55.784	35.859	1.90 55.06	AAAA C
LIOTA	3624	O	GLU	391	57.216	55.652	35.345	1.00 54.61	AAAA o

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ATOH	3625	11 317	392	54.980	55.449	35.157	1.00 53.50	aaaa ii
ATON	3627	CA GLI		55.091	55.C18	33.766	1.00 48.15	aaaa c
ATOH	3628	CB GL		55.051	53.550	33.532	1.00 35.27	AAAA C
	3629	CG GLI		54.739	53.225	32.051	1.00 49.69	AAAA C
ATCH				54.676	51.719	31.897	1.00 56.45	AAAA C
ATOI1	3630			55.062			1.00 61.66	AAAA O
INTA	3631	OE1 GLU			59.924	32.705		AAAA O
HOTA	3632	OE2 GLU		54.264	51.201	30.745		AAAA C
ATOH	3633	C GIT		54.006	55.732	32.973	1.00 50.84	AAAA O
ATCH	3634	O GL		53.097	56.282	33.598	1.00 49.44	
HOTA	3635	n gri		54.347	56.256	31.790	1.00 52.25	AAAA II
ATON	3637	CA GL	1 383	53.498	57.153	31.016	1.00 40.15	AAAA C
ATOH	3638	CB GL	1 383	53.914	58.609	31.155	1.00 28.50	AAAA C
HOTA	3639	CG GLi	1 383	54.489	58.909	32.542	1.00 31.10	AAAA C
ATOH:	3640	CD GL	1 383	54.950	60.301	32.752	1.00 33.19	AAAA C
HOTA	3641	OE1 GL	1 383	55.186	60.840	31.683	1.00 40.34	AAAA O
ATOH	3642	HE2 GU		55.043	60.943	33.934	1.00 36.30	II AAAA II
ATOM	3645	C GLI		53.426	56.744	29.563	1.00 40.45	AAAA C
ATOH	3646	o gu		54.131	55.858	29.139	1.00 43.45	AAAA O
	3647	II LES		52.375	57.195	28.860	1.00 42.54	AAAA H
ATOH		CA LE		52.257	56.889	27.443	1.00 43.24	AAAA C
ATOH	3619					26.949	1.00 43.79	AAAA C
HOTA	3650	CB LE		50.814	57.011	27.861	1.00 41.21	AAAA C
ATO: I	3651	CG LE		49.818	56.235		1.00 33.99	AAAA C
ATOH	3650	CD1 LE		48.611	57.095	28.221		AAAA C
ATOH	3653	CD2 LE		49.405	54.968	27.149	1.00 33.20	AAAA C
1 IOTA	3654	C LE		53.204	57.809	26.672	1.00 49.51	
HOTA	3655	O LE	U 384	53.582	58.872	27.177	1.00 29.66	AAAA O
ATOH	3656	ii GL	U 385	53.659	57.319	25.531	1.00 45.22	AAAA II
HOTA	3658	CA GL	ບ 385	54.410	59.116	24.570	1.00 49.98	AAAA C
ATOH	3659	CB GL	u 385	54.424	57.475	23.174	1.00 60.50	AAAA C
HOTA	3660	CG GL	U 385	55.045	56.095	23.106	1.00 68.76	AAAA C
ATOI1	3661	CD GL		54.195	54.951	23.592	1.00 72.07	AAAA C
ATOH	3662	OE1 GL		53.150	55.213	24.244	1.00 81.88	O AAAA
ATCH	3663	OE2 GL		54.565	53.786	23.301	1.00 73.13	AAAA O
	3664	C GL		53.828	59.515	24.450	1.00 47.41	AAAA C
ATOI-I				52.635	59.706	24.194	1.00 54.43	AAAA O
ATON	3665				60.470	24.902	1.00 43.69	II AAAA
ATOM	3666	H GL		54.614		24.897	1.00 40.34	AAAA C
ATC:1	3668	CA GL		54.181	61.870		1.00 40.65	AAAA C
ATOH	3669	C GL		54.286	62.419	26.308	1.00 39.75	AAAA O
ATOH	3670	O GL		53.930	63.615	26.491	1.00 40.75	II AAAA
HOTA	3671	II AS		54.441	61.537	27.272		AAAA C
ATOM:	3673	CA AS		54.479	61.912	28.675	1.00 49.18	
HOTA	3674	CB AS	11 387	55.500	¢3.084	28.874	1.00 44.41	AAAA C
HOTA	3675	CG AS	11 387	56.925	62.541	28.722	1.00 61.51	AAAA C
ATOH	3676	OD1 AS	ti 387	57.199	61.313	28.677	1.00 57.85	AAAA O
ATOH	3677	HD2 AS	11 387	58.963	63.251	28.592	1.00 61.96	AAAA N
ATOH	3680	C AS	11 387	53.995	62.100	29.299	1.00 48.46	.AAAA C
ATOH!	3681	O AS	11 387	52.836	62.891	30.218	1.00 48.99	AAAA O
ATOH	3682	D TY		52.214	61.116	29.058	1.00 46.29	II AAAA
ATOH	3684	CA TY		50.846	61.199	29.540	1.00 45.09	AAAA C
ATOH	3695	CB TT		49.823	60.957	28.399	1.00 40.70	AAAA C
ATON	3686	CS TY		49.925	62.056	27.373	1.00 42.24	AAAA C
ATOH	3687	CD1 TY		50.343	61.854	26.064	1.00 44.39	AAAA C
	3688	CE1 TY		50.401	62.885	25.157	1.00 35.51	AAAA C
ATON				49.625	63.356	27.709	1.00 44.67	AAAA C
ATON	3689				64.428	26.830	1.00 38.14	AAAA C
ATOH	3690	CE2 TY		49.699		25.555	1.00 41.27	AAAA C
ATON	3691	CZ TY		50.087	64.148		1.00 50.18	AAAA O
ATON	3692	OH Ti		50.151	65.181	24.604	1.00 41.88	AAAA C
ATOH!	3694	C Ti		50.563	60.288	30.714		AAAA O
ATOH.	3695	O T'i		50.727	59.092	30.511	1.00 32.99	II AAAA
A'TOI I	3696	H SE		50.020	60.917	31.753	1.00 45.42	AAAA C
ATOH	3698	CA SE		19.591	60.131	32.931	1.00 50.13	
LIOTA	3699	CB SE	:R 389	49.798	60.894	34.261	1.00 45.57	AAAA C
ATO: 1	3700	OG SE	R 389	51.195	60.899	34.504	1.00 51.11	O AAAA
ATOH	3702	C SE	R 389	48.097	59.813	32.804	1.00 48.11	AAAA C
ATOI1	3703	O SE	R 389	17.686	58.792	33.336	1.00 49.25	O AAAA
ATOH	3704	II PI		47.321	60.685	32.196	1.00 42.56	AAAA II
ATOH	3796	CA PI		45.867	60.595	32.146	1.00 40.76	AAAA C
ATOH	3707	CB PH		45.241	61.581	33.139	1.00 44.80	AAAA C
ATOH	3708	CG PI		13.764	61.358	33.328	1.00 40.53	AAAA C
	3709	CD1 PH		43.406	60.273	34.089	1.00 40.80	AAAA C
ATOH		CD2 PI		42.769	62.157	32.748	1.00 35.59	AAAA C
ATCH!	3710	CE1 PI		42.050	59.985	31.312	1.00 47.09	AAAA C
HOTA	3711			41.454	61.824	32.965	1.00 44.50	AAAA C
ATOH	3712	CE2 PI			60.745	33.739	1.00 34.54	AAAA C
ATOH	3713	C2 PI		11.063		30.720	1.00 38.54	AAAA C
ATON	3714	C PI		45.372	60.829		1.00 40.29	AAAA O
ATOH	3715	O PI		45.542	61.918	30.126	1.00 33.49	AAAA II
INTA	3716	11 T		44.819	59.818	30.096		
MOTA	3718	CA T		44.596	59.782	28.663	1.00 38.58	AAAA C
MOTA	3719	CB T	CR 391	45.579	58.871	27.972	1.00 38.95	AAAA C
ATOH	3720	CG T		45.760	59.006	26.503	1.00 44.54	AAAA C
ATOH	3721	CD1 T		46.822	59.815	26.052	1.00 47.14	AAAA C
ATOH	3722	CEL T		47.057	59.993	24.722	1.00 46.03	yyyy c
ATOH	3723	CD2 T		44.927	58.390		1.00 46.94	MAY C
ATO!	3724	CES T.		45.157	58.560		1.00 47.45	AAAA C
ATOH	3725		CR 391	46.207	59.350		1.00 45.84	AAAA C
LV 1 (78)	3,_3		371	40.207				

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ATCH	3726	CH	TYR	391	46.374	54,492	22.491	1.00	44.70	AAAA O
ATOI:	3728	C	TYR	391	43.194	59.232	28.349		39.74	AAAA C
ATON	3729	0	TYR	391	42.841	59.103	28.730		38.49	AAAA O
ATOH	3730	1!	VAL	392	42.417	60.158	27.779		37.97	AAAA I!
ATOH ATOH	3732 3733	CA CB	VAL VAL	392 392	40.958 40.075	59.874 60.880	27,603		39.52 41.12	AAAA C AAAA C
ATOH	3734	csi		392	38.612	60.464	28.472		37.96	AAAA C
ATCH	3735		VAL	392	10.666	61.041	29.841		33.12	AAAA C
HOTA	3736	C	VAL	392	40.531	60.092	06.180		31.08	AAAA C
ATOH	3737	0	VAL	335	40.508	61.277	25.804		34.71	AAAA O
ATOH	3738	11	LEU	393	40.299	59.113	25.383		34.62	AAAA II
ATOH ATOH	3740 3741	CA CB	LEU	393 393	39.948 41.200	59.259 59.036	23.977		38.12 42.49	AAAA C AAAA C
ATOH	3742	CG	LEU	393	41.023	58.649	21.586		26.48	AAAA C
ATCH!	3743	CDI		393	41.128	59.879	20.753		26.57	AAAA C
ATON	3744	CDC		393	42.978	57.589	21.244		29.98	AAAA C
ATOH	3745	9	LEU	393	38.821	58.375	23.492		39.15	AAAA C
ATO!!	3746 3717	0	LEU	393	38.760	57.173	23.709		37.90 43.38	AAAA O
ATOH ATOH	3749	CA.	ASP Jea	364 364	38.015 36.888	58.973 58.215	22.565 21.975		44.77	AAAA C
HOTA	3750	CB	ASP	394	37.445	57.073	21.120		44.80	AAAA C
ATO!!	3751	CG	ASP	394	36.466	56.477	20.156		47.14	AAAA C
ATOH:	3752	ODI		301	36.750	55.577	19.333		52.91	AAAA O
ATOU	3753	OD2		351	35.311	56.948	20.180		49.27	AAAA O
ATCH ATOH	3754 3755	Ċ	ASP	394	35.936	57.619	23.021		43.17 43.51	AAAA C AAAA O
ATOM ATOM	3756	11	ASF ASII	394 395	35.831 35.299	56.385 58.495	23.212		39.90	AAAA II
ATOH	3758	CA	ASII	395	34.305	58.158	24.776		46.32	AAAA C
HOTA	3759	€B	ASH	395	34.804	58.512	26.212		42.96	AAAA C
ATOH	3760	CG	ASH	395	35.992	57.619	28.579		36.92	AAAA C
MOTA	3761	OD1		395	36.013	56.394	26.796		21.65	AAAA O
ATON HOTA	3762 3765	HD2		395	37.075	58.409	26.559		27.87 40.44	AAAA C
ATON	3766	O C	ASII ASII	395 395	32.932 32.749	58.816 59.982	24.541		37.06	AAAA O
ATOH	3767	11	GLI!	396	32.073	58.055	23.877		46.74	AAAA II
ATOH	3769	CA	GLN	396	30.771	58.582	23.421		52.93	AAAA C
ATOH	3770	CB	GLH	396	29.848	57.567	22.744		52.29	AAAA C
HOTA	3771	C:2	GLII	396	30.173	57.405	21.257		46.42	AAAA C
ATOM	3772	CD	GLII	396	29.817.	55.991	20.840		55.21 61.17	AAAA C AAAA O
ATOM ATOM	3773 3774	OE1 HE2		396 396	28.835 30.628	55.421 55.411	21.312		55.79	II AAAA
ATOM	3777	C	GLH	396	29.874	59.224	24.458		48.64	AAAA C
ATO14	3778	O	GLH	396	29.407	60.287	24.113		51.63	AAAA O
ATOM	3779	11	ASII	397	29.717	58.681	25.633		48.95	AAAA II
ATOH	3781	CA	ASH	397	28.783	59.196	26.632		51.72	AAAA C
ATOH	3782 3783	CB CG	ASH ASH	397	27.969	57.959	27.093 25.860		35.94 49.09	AAAA C AAAA C
HOTA	3794	ODI		397 397	27.231 26.591	57.430 58.304	25.229		49.32	AAAA O
ATO:	3785	HDC		397	27.258	56.175	25.431		43.31	AAAA II
HOTA	3788	Ç	ASH	397	29.367	59.945	27.800		52.98	AAAA C
ATOH	3799	0	A3H	3.27	28.586	60.344	28.627		53.33	AAAA O
ATOH	3790	11	LEU	398	30.682	50.000	28.001		55.73	II AAAA II
HOTA	3792 3793	CS CS	LEU	398 398	31.312	60.550 60.389	29.179 29.149		52.12 48.47	AAAA C
ATOLL	3794	CG	LEU	398	33.606	60.283	30.460		41.81	AAAA C
	3795	CD1		398	33.417	58.939	31.135		40.35	AAAA C
HOTA	3796	CD2	LEU	398	35.070	60.608	30.082	1.00	39.03	AAAA C
ATOH	3797	Ç	LEU	399	30.923	61.995	29.353		52.35	AAAA C
ATOH	3798	0	LEU	398	31.422	62.509	28.681		49.91 58.76	AAAA O
ATOH ATOM	3799 3801	CA TI	GLII GLII	399 309	30.241	62.225	30.469 30.796		60.03	AAAA C
ATOH	3802	CB	GLII	399	28.236	63.558 63.331	31.262		59.55	AAAA C
ATOH	3893	CG	GLII	360	27.235	63.962	30.316		73.07	AAAA C
ATO(1	3864	CD	GLII	399	25.944	63.146	30.340		78.39	AAAA C
1 POTA	3805	CEI		399	25.097	63.455	31.194		71.79	AAAA O
ATOH	3006	HE2		399	25.856	62.158	29.440		69.88	AAAA II
HOTA	3809 3810	о С	GLII GLII	399 399	30.490	64.252	31.989 32.068		54.49 51.96	AAAA C AAAA O
ATOH	3811	11	GLII	400	30.528 31.058	65.477 63.389	32.734		50.44	AAAA II
ATON	3813	CA	GLII	400	31.938	63.948	33.756		53.83	AAAA C
ATOH	1136	CB	GLU	400	31.215	64.314	35.049		54.97	AAAA C
ATOH	3815	CG	GUII	400	30.717	63.150	35.997		58.99	AAAA C
ATON	3816	OD	GLU	400 400	30.678	63.430	37.389		65.82	2 AAAA O AAAA
ATOH ATOH	3817 3818	OE1		400 400	30.906 30.341	64.502 62.444	37.960 38.222		68.10 55.35	AAAA II
ATOH	3821	Č.	GLH	400	33.113	63.009	34.052		52.08	AAAA C
ATOH	3922	ō	GLI:	400	33.107	61.783	33.942		51.90	AAAA O
ATOH	3823	11	LEU	401	34.073	63.580	34.751	1.50	49.58	AAAA II
ATOH	3825	CA	LEII	191	35.175	62.844	35.334		49.57	AAAA C
HOTA	3926	CB	LEU	401	36.379	63.803	35.260		47.94	AAAA C
ATOH ATOH	3927 3928	09 001	LEU	491 491	36.636 37.658	64.237 65.326	33.772 33.677		39.99 46.61	AAAA C
ATOH	3828	702		101	36.919	63.062	31.860		40.72	AAAA C
ATOH	3930	ç	LEU	101	4.866	62.357	36.734	1.00	51.23	AAAA C
ATOH	3931	O	LET	401	34.258	61.299	36.892	1.00	49.06	AAAA O

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ATOH	3832	I: TRP	402	35.297	63.140	37.690	1.00 54.58	AAAA II
ATOH	3834	CA TRP	402	34.975	63.090	39.097	1.00 59.76	AAAA C AAAA C
ATOH ATOH	3835 3936	CB TRP	402 402	36.279 36.971	62.953 61.624	39.933 39.737	1.00 59.56 1.00 58.17	AAAA C
ATOH	3837 3838	CDC TRP	402	37.981	61.243	38.784 39.002	1.00 53.18	AAAA C AAAA C
ATCII ATCII	3835	CE2 TRP	402 402	38.286 38.643	59.897 61.917	37.761	1.00 56.61 1.00 43.25	AAAA C
ATCH	3940	CD1 TRP	102	36.719	60.517	40.459	1.00 53.50 1.00 57.66	AAAA C AAAA II
ATOH ATOH	3841 3843	HEL TRP	402 402	37.488 39.212	59.467 59.160	40.032	1.00 51.44	AAAA C
HOTA	3844	CH2 TRP	402	39.546	61.199	37.026	1.00 53.69 1.00 50.75	AAAA C AAAA C
ATOH ATOH	3816 3812	C TRP	402	39.920 34.223	59.957 64.389	37.263 39.429	1.00 64.09	AAAA C
ATOH ATOH	3847 3848	O TRP	402 403	34.408 33.503	64.418 65.449	38.808 40.551	1.00 61.98 1.00 68.85	AAAA 0 AAAA 1!
ATOH	3850	CA ASP	403	32.947	65.668	41.968	1.00 67.83	aaaa c
ATOH ATOH	3951 3952	CB ASP	403 403	31.918 30.853	65.343 66.417	42.151 42.306	1.00 72.19 1.00 73.08	AAAA C AAAA C
ATOH	3853	OD1 ASF	403	31.177	67.625	42.297	1.00 71.67	AAAA O
ATOL: ATOLI	3854 3855	OD2 ASE	403 403	29.693 34.005	65.979 66.607	42.454	1.00 75.08 1.00 66.63	AAAA O AAAA C
ATOH	3856	O ASP	403	34.245	66.672	42.811	1.00 67.18	AAAA O
ATOH ATOH	3857 3859	II TRP	404 404	34.449 35.412	67.588 68.588	40.846	1.00 69.29 1.00 77.11	AAAA II AAAA C
ATOH	3860	CB TRP	404	35.859	69.409	40.063	1.00 79.10	AAAA C
ATOH ATOH	3861 3862	CG TRP	404 404	36.504 37.294	68.509 67.346	39.047 39.322	1.00 82.59 1.00 84.82	AAAA C AAAA C
ATGH	3863	CE2 TRP	404	37.686	66.813	38.081	1.00 84.56	AAAA C
ATOH ATOH	3864 3865	CE3 TRP	404 404	37.703 36.460	66.710 68.622	40.506 37.694	1.00 80.95 1.00 83.37	AAAA C AAAA C
ATOH	3966	HET TRP	404	37.165	67.617	37.111	1.00 80.33	AAAA :1
ATOH ATOH	3868 3869	C22 TRP	404 404	38.477 38.471	65.662 65.573	37.982 40.392	1.00 85.91 1.00 86.36	AAAA C AAAA C
ATOH	3870	CH2 TRP	41)4	38.860	65.051	39.133	1.00 85.05	AAAA C
ATOH ATCH	3971 3872	C TRP O TRP	404 404	35.934 35.387	69.51 7 70.709	42.420 42.504	1.00 81.60 1.00 84.57	AAAA C AAAA O
ATOH	3873	H ASP	405	34.281	69.063	43.393	1.00 84.45	II AAAA II
ATOH ATOH	3875 3876	CA ASP	405 405	33.771 32.352	69.861 70.365	44.496	1.00 87.48 1.00 88.04	АААА С АААА С
ATOH	3877	CG ASP	405	32.274	71.612	43.409	1.00 92.54	AAAA C
ATOH ATOH	3878 3879	OD1 ASP	405 405	33.306 31.130	72.285 71.854	43.207 42.955	1.00 94.82 1.00 95.26	AAAA O AAAA O
ATOH:	3880	C ASP	405	33.730	68.906	45.693	1.00 87.80	AAAA C
ATOH ATOH	3881 3882	O ASP	405 406	34.245 33.239	69.224 67.709	46.743	1.00 92.18 1.00 84.46	AAAA O AAAA II
HOTA	3884	CA ALA	406	33.176	66.671	46.451	1.00 82.87	AAAA C
ATOH ATOH	3885 3886	CB ALA	406 406	31.943 34.445	65.805 65.840	46.133 46.459	1.00 76.32 1.00 85.77	AAAA C AAAA C
ATCH	3887	O ALA	496	34.470	64.823	47.185	1.00 89.38	AAAA O AAAA II
ATOH ATOH	38 è û 38 8 8	II ARG CA ARG	407 407	35.433 36.541	66.073 65.151	45.577 45.400	1.00 83.74 1.00 79.60	AAAA C
ATOH	3991	CB ARG	407	36.165	64.140	44.297	1.00 77.84	AAAA C
ATOH ATOH	3893	CG ARG	107 407	35.457 35.362	62.950 61.689	44.921	1.00 81.91 1.00 86.97	AAAA C AAAA C
ATON	3894	HE ARG	407	36.281	60.660	44.607	1.00 86.94	AAAA ?; AAAA C
ATOH ATOH	3896 3897	CS ARG	407 407	37.564 38.169	60.583 61.441	44.279	1.00 92.14 1.00 97.06	AAAA H
ATOH	3503 3500	IIH2 ARG	407	38.309	59.616	44.77 <u>0</u> 45.048	1.00 96.33 1.00 76.72	AAAA II AAAA C
ATOH ATOH	3904	C ARG	407	37.880 37.989	65.749 66.774	44.410	1.00 77.47	AAAA O
ATOH	3905	II ASII CA ASII	108	38.958	65.081	45.453	1.00 75.75 1.00 73.79	AAAA II AAAA C
ATOH ATOH	3907 3908	CA ASII CB ASII	108 108	40.311 40.939	65.556 66.240	45.173 46.388	1.90 74.46	AAAA C
ATOH	3909	CG ASH	108	41.986	67.242 68.429	45.947 46.240	1.00 82.51	AAAA C AAAA O
ATOH ATOH	3910 3911	OD1 ASH	108 108	41.913 43.028	66.821	45.253	1.00 84.46	II AAAA !!
A'TOH	3914	C ASH	408	41.257	64.468	44.654 45.151	1.00 65.97 1.00 63.82	AAAA C AAAA C
ATOH ATOH	3915 3916	O ASII	408 409	41.251 42.041	63.374 64.793	43.650	1.00 61.41	AAAA II
ATOH ATOH	3918 3919	CA LEU	10 <i>è</i> 10 <i>è</i>	42.896 42.153	63.872 63.250	42.947 41.768	1.00 60.90 1.00 62.98	AAAA C AAAA C
ATOH	3920	CG LEU	400	42.992	62.553	40.704	1.00 59.77	AAAA C
ATOH ATOH	3921 3922	CD1 LEU CD2 LEU	40a 40a	43.488 42.094	61.205 62.445	41.197 39.486	1.00 54.06 1.00 55.74	AAAA C AAAA C
ATON	3923	C LEU	100	44.151	64.599	42.485	1.00 61.19	AAAA C
ATOH ATOH	3924 3925	O LEU II THR	410 409	44.141 45.281	65.809 63.903	42.370	1.00 60.64	AAAA O II AAAA
ATOH	3927	CA THR	410	46.588	64.462	12.131	1.00 60.44	AAAA C
ATOH ATOH	3928 3929	CB THR	410 410	47.454 46.870	64.676 65.746	43.385 44.157	1.00 67.08 1.00 74.29	AAAA C AAAA O
ATOH	3931	CG2 THR	410	48.909	65.103	43.162	1.00 48.56	AAAA C
ATOH	3932 3933	O THR	410 410	47.426 47.380	63.565 62.354	41.218	1.00 56.62 1.00 54.99	C AAAA C
ATON	3934	# ILE	411	48.977	64.245	40.288	1.00 53.97	AAAA II
ATOH	3936	CA ILE	411	48.897	63.562	39.291	1.00 53.29	C AAAA

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39/58 1.00 49.91 AAAA C ATOH 3937 CB ILE 411 48.409 63.854 37.064 3938 CG2 ILE 3939 CG1 ILE AAAA C ATCH 411 49.216 63.128 **36.80**6 1.00 30.86 AAAA C 411 46.911 **ATOH** 63.489 37.729 1.00 40.83 AAAA C ATOH 3940 CD1 ILE 411 36.339 1.00 38.51 46.322 63.547 AAAA C ATO!! 3941 ILE 411 50.319 39.569 1.00 55.38 64.018 HOTA 3942 ILE 411 50.656 65.179 39.291 1.00 57.59 AAAA O ATOH 3943 SER 412 51:073 63.182 10.270 1.00 54.26 AAAA II 3945 CA SER 412 63.502 1.00 54.46 AAAA C ATOH 52.434 40.689 AAAA C 412 412 412 412 ATC:1 3946 CB SER 53.071 62.210 1.00 55.78 41.248 1.00 67.12 AAAA ATOI-I 3947 OG. SER 53.756 62.536 42.434 39.523 39.527 1.00 55.52 AAAA. SER ATCI1 3010 53.326 63.910 1.00 55.04 AAAA 3950 SER 54.081 64.876 ATOLL ATOH 3951 ALA 413 53.254 38.438 1.00 50.12 AAAA II 63.124 63.402 1.00 50.01 AAAA HOTA 3953 CA ALA. 413 54.064 37.281 HOTA 3254 CB ALA 413 55.334 62.520 37.365 1.00 34.95 AAAA 1.00 49.71 AAAA C 3955 ALA 413 53.301 63.078 35.994 HOTA AAAA O 1.00 48.81 HOTA 3956 0 ALA 413 52.495 62.169 35.998 1.00 47.92 AAAA II MOTA 3957 11 GLY 414 53.675 63.690 34.895 1.00 51.75 AAAA CA GLY 33.607 ATC11 3959 414 53.057 63.454 1.00 52.77 AAAA 3960 C GLY 52.017 33.294 ATCH 414 64.524 1.00 53.23 51.684 AAAA O 3961 GLY 414 34.114 65.370 ATCH 1.00 56.31 AAAA H 11 32.138 3962 LïS 415 51.385 64.406 ATO!! 1.00 52,49 AAAA C 3964 CA LYS 415 50.289 65.317 31.759 ATOI1 CB 1.00 50.94 AAAA C ATCII 3965 LYS 415 50.884 66.358 30.833 ATCH 3966 CG LYS 415 51.198 65.855 29.429 1.00 54.39 AAAA C AAAA 3967 CD LYS 415 52.288 66.691 28.765 1.00 53.96 ATOH AAAA C 1.00 56.01 HOTA 3968 CE LYS 415 52.785 66.151 27.441 1.00 66.36 AAAA II HOTA 3969 112 LTS 415 52.426 67.032 26.284 1.00 50.04 AAAA C HOTA 3973 $^{\circ}$ LYS 415 49.110 64.576 31.155 1.90 49.77 AAAA O ATO11 3974 0 LYS 415 49.077 63.337 31.036 1.00 48.34 AAAA 11 3975 LIET 48.091 30.771 ATOH 11 416 65.353 3977 64.734 1.00 46.77 AAAA C CA HET 416 30.186 ATOH: 46.890 3978 СВ MET 416 45,629 30.949 1.00 42.79 AAAA HOTA 65.186 HOTA 3979 CG HET 416 45.836 65.880 32.273 1.00 40.91 AAAA C 1.00 56.20 AAAA 3 ATOH 3980 SD MET 416 44.511 65.636 33.517 1.00 35.94 AAAA C ATOH 3981 CE HET 416 44.002 67.366 33,590 3982 MET 416 28.729 1.00 40.40 AAAA C ATOH: 46.623 65.064 28.247 AAAA O 3983 HET 416 46.963 1.00 34.84 ATOI1 66.137 AAAA II HOTA 3984 1) TTR 417 45.893 64.169 28.104 1.00 38.49 1.00 39.50 AAAA C ATOM 3986 CA TYR 417 45.355 64.387 26.765 1.00 32.02 AAAA 3987 25.831 ATOH 417 46.156 63.471 AAAA 3988 1.00 39.48 ATOH. CG 417 63.430 24.428 TYR 45.583 45.730 1.00 39.29 AAAA C HOTA 3989 CD1 TYR 417 64.501 23.511 CE1 TYR 22.253 1.00 34.56 AAAA C HOTA 3990 417 45.196 64.429 AAAA C 3991 CD2 TYR 24.005 1.00 36.81 ATOH 417 44.884 62.321 AAAA C 3992 CE2 TYR 417 44.379 22.722 1.00 38.80 ATON. 62.241 AAAA C 3993 CI TYR 417 44.535 63.292 21.872 1.00 44.20 HOTA 1.00 58.10 AAAA O HOTA 3001 OH TYR 417 44.053 63.361 20.552 1.00 44.18 AAAA C 26.698 HOTA 3996 C TTR 417 43.853 64.065 27.135 1.00 42.19 AAAA O 62.974 ATC:1 3097 O TYR 417 43.376 1.00 45.84 AAAA II 43.068 64.971 26,100 ATOLI 3008 11 PHE 118 1.00 45.67 AAAA C ATOH 4000 CA EHE 418 64.761 25.910 41.644 AAAA C ATOU 4001 rB SHE 118 40.772 65.657 26.730 1.00 47.19 10.675 PHE 65.264 28.177 AAAA C ATOL 4002 00 418 1.00 43.44 ATOH 4003 CD1 PHE 41.552 65.685 29.132 1.00 38.43 AAAA C 119 ATOH 4004 CD2 PHE 39.638 64.417 28.544 1.00 51.21 AAAA C 1005 CE1 PHE 41.402 30.440 1.00 45.44 AAAA C ATOH 418 65.291 AAAA C CE2 PHE 1.00 46.63 HOTA 4006 418 39.486 64.023 29.845 AAAA C ATOH 4007 CZ PHE 418 40.358 64.454 30.801 1.00 44.68 AAAA C 1.00 44.64 ATON 4008 0 PHE 418 41.251 64.730 24.440 1.00 47.60 AAAA O ATO(1 1009 0 PHE 418 41.375 65.762 23.812 AAAA H 63.713 1.00 43.06 23.936 ATOI1 4010 11 ALA 419 40.554 419 1.00 39.21 AAAA C 4012 CA ALA 40.015 63.793 ATOM AAAA C CB ALA 63.562 21.555 1.00 30.88 4013 419 ATOH. 41.090 38.837 62.846 22.366 1.00 41.77 AAAA C ALA 119 ATOH 4014 ALA 22.557 1.00 36.08 AAAA O ATOH 4015 419 38.871 61.628 II AAAA II PHE 420 21.618 1.00 40.41 ATO!! 4016 37.829 63.398 AAAA C ATOH 4018 CA PHE 420 36.742 62.621 21.070 1.00 40.03 AAAA C 1.00 45.54 4019 CB PHE 420 37.157 20.180 ATO!! 61.430 AAAA O HOTA 4020 CG PHE 420 37.832 61.909 18.912 1.00 54.18 AAAA C 1.00 49.03 ATOH 4021 CD1 PHE 420 39.221 61.987 18.751 1.00 47.65 17.871 AAAAATOH 4022 CDC PHE 420 37.006 62.345 AAAA 62.496 17.567 1.00 46.00 ATOH 4023 CE1 PHE 420 39.783 16.725 1.00 51.10 AAAA C CE2 PHE 420 37.572 62.833 ATOU 4024 62.928 16.549 1.00 44.01 AAAA HOTA 4025 CZ PHE 420 38.964 AAAA C 1.00 41.65 HOTA 4026 PHE 420 35.762 62.146 22.126 AAAA O 1.00 38.35 ATOH 4027 PHE 420 35.352 60.991 22.215 1.00 45.35 AAAA N 4028 ASH 421 63.024 23.049 HOTA 35,459 AAAA C 4030 CA ASII 34.477 62.960 24.112 1.00 46.86 ATOH 421 AAAA C 4031 CB ASII 63.276 25.449 1.00 43.60 401 35.183 AAAA C 4032 ASII 121 62.401 25.654 1.00 47.90 ATOH CG. 36.407 1.00 44.83 AAAA O 4033 OD1 ASH 421 61.147 25.714 ATOH 36,426 AAAA II 1.00 37.46 1034 11D2 AS11 401 63.101 25.732 HOTA 37.541 1.00 47.83 A.A.A. Ç O 23.835 ATOH 4037 ASII 421 64.069 33.432 AAAA O 1.90 38.95 24.237 ATOH 4038 ASII 421 33.617 65.233

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HOTA	1010	(1)	089	422	32.453	\$3.777	22.969	1.00 47.86	II AAAA C
ATOH ATCH	1041	CA	PRO	422 422	32.213 31.463	62.423 64.776	22.372	1.00 44.11	AAAA C
ATCH	4042	CB	PRO	422	30.731	64.084	21.446	1.00 44.86	AAAA C
ATOH	1043	CG.	PRO	122	30.947	62.623	21.606	1.00 43.01	AAAA C AAAA C
ATCH ATCH	1015	Ĉ C	PRO	422 422	30.577 30.223	65.284 66.486	23.735	1.00 51.16	O AKAA
ATOH	1016	11	LTS	423	30.320	64.487	24.774	1.00 52.90	II AAAA
ATOII	1048	CA	LYS	423	29.431	64.908	25.865	1.00 58.82	AAAA C
ATOH HOTA	4049 4050	ca cs	LYS LYS	423 423	28.556 28.209	63.721 62.810	26.360 25.196	1.00 52.93	АААЛ С АААА С
ATOH	4051	ÇD.	LYS	123	26.743	62.448	2: 996	1.00 73.79	AAAA C
ATON	4052	CE	LYS	153	26.030	63.374	24.021	1.00 77.06	AAAA C
I IOTA I IOTA	1053 1057	C 132	LYS	423 423	25.949 30.158	61.748 65.482	24.614 27.071	1.00 64.99	AAAA 11 AAAA C
ATOH	4058	ō	LYS	423	29.582	65.478	28.152	1.00 55.22	AAAA O
ATOH	4059	11	LEU	424	31.425	65.859	26.862	1.00 55.95	AAAA II
ATOM ATOM	4061 4062	GR GV	LEU	424 424	32.261 33.463	66.162 65.250	28.017 28.237	1.00 57.07	AAAA C AAAA C
ATOH	1063	C/G	LEU	424	34.390	65.748	29.370	1.00 68.27	PAAA C
ATOH	1064		LEU	124	33.821	65.362	30.734	1.00 60.66	AAAA C
ATOH ATOH	4065 4066	CD2	LEU	424 424	35.825 32.709	65.276 67.585	29.123 27.878	1.00 60.35	AAAA C AAAA C
ATON	4067	ŏ	LEU	424	33.696	67.861	27.201	1.00 59.98	AAAA O
1 TOTA	1068	11	CYS	125	31.995	68.188	28.492	1.00 58.76	II AAAA
HOTA HOTA	4070 4071	CV CV	CYS	425 425	32.342 33.771	69.916 70.119	28.406 28.810	1.00 60.39	AAAA C AAAA C
HOTA	4072	o	CYS	125	34.288	69.665	29.831	1.00 64.45	AAAA O
HOTA	1075	C2	CYS	425	31.249	70.644	29.214	1.00 68.23	AAAA C
ATOH	1074	5G	CVS	425	29.916	71.303	29.086	1.00 81.03	AAAA S AAAA N
ATOH ATOH	4075 4077	II CA	VAL	426 426	34.529 35.943	70.953	28.102	1.00 65.49	AAAA C
110'TA	4078	CB	VAL	426	36.644	72.022	27.310	1.00 66.66	AAAA C
ATOH	4079		VAL	426	36.715	71.413	25.925	1.00 62.49	AAAA C
HOTA HOTA	4080 4081	CG2 C	VAL	426 426	35.962 36.105	73.365 71.711	27.239	1.00 60.92	AAAA C AAAA C
ATOII	4082	ō	VAL	426	37.180	71.724	30.388	1.00 64.51	O AAAA
ATOH	4083	!!	SER	427	35.090	72.361	30.267	1.00 67.67	AAAA II
ATOM ATOM	4085 4086	CA CB	SER SER	427 427	35.091 33.685	72.927 73.499	31.599 31.864	1.00 66.85	AAAA C AAAA C
ATOI1	4087	OG.	SER	427	34.088	74.860	32.098	1.00 67.05	AAAA O
ATOH	4089	S	SER	427	35.515	71.972	32.701	1.00 64.24	AAAA C AAAA O
HOTA NOTA	4090 4091	0	SER	427 428	36.332 34.965	72.328 70.771	33.573 32.618	1.00 63.66 1.00 58.75	II AAAA
ATOI 1	4093	CA	GLU	428	35.384	69.753	33.585	1.00 63.39	AAAA C
ATOH	4094	CB	GLU	428	34.594	68.485	33.240	1.00 68.67	AAAA C AAAA C
ATOH ATOH	4095 4096	CG	GLU	428 428	33.115 32.785	68.560 68.560	33.537 35.023	1.00 72.33	AAAA C
ATOLL	4097		GLU	428	32.729	67.522	35.722	1.00 81.62	O AAAA
ATOH	1038	082	GLU	428	32.581	69,688	35.517	1.00 79.97	aaaa o aaaa c
HOTA HOTA	4099 4100	0	GLU	428 428	36.970 37.671	69.485 69.696	33,429 34,307	1.00 62.03	AAAA O
HOTA	4101	!!	ILE	129	37.265	69.262	32.165	1.00 61.26	AAAA II
ATOI1	4103	CA	ILE	15.6	38.631	69.038	31.799	1.00 61.09	AAAA C
ATOH ATOH	4104 4105	CB CG2	ILE	429 429	38.759 40.257	68.933 68.915	30.263 23.895	1.00 59.32	C AAAA C AAAA
ATOH	4106	0.31		429	37.968	67.719	29.794	1.00 57.66	AAAA C
ATON	4107		ILE	429	38.038	67.555	28.285	1.00 53.48	AAAA C
ATOH ATOH	4108 4109	0	ILE	429 429	39.498 40.592	70.166 70.017	32.323 32.867	1.00 61.90 1.00 61.28	AAAA C AAAA O
HOTA	4110	11	TYR	430	38.987	71.384	32.200	1.00 65.34	AAAA II
ATOH	4112	CA	TTR	430	39.729	72.543	32.719	1.00 68.10	AAAA C
ATOH ATOH	4113 4114	CB CG	TYR	430 430	39.180 39.538	73.822	32.099 30.639	1.00 71.02 1.00 75.98	AAAA C AAAA C
ATOLL	4115		TTR	430	38.653	73.821	29.599	1.00 77.60	AAAA C
ATOH	4116		TTR	430	38.953	73.977	28.270	1.00 75.72	WWY C
HOTA HOTA	4117 4118	CD2	TYR TYR	430 430	40.910 41.155	74.401	30.260 28.937	1.00 75.95	AAAA C AAAA C
ATOII	4119	GE	TTR	430	40.221	74.359	27.952	1.00 78.51	AAAA T
ATOI-I	4120	OH	TTR	430	40.564	74.542	26.616	1.00 85.40	O AAAA
ATOH ATOH	4122 4123	Ċ	TYR	430 430	39.779 40.654	72.634 73.321	34.241 31.758	1.00 63.72	AAAA C AAAA O
ATOH	4124	11	ARG	431	38.819	73.321	34.967	1.00 65.53	raaa ii
ATOH	4126	CA	ARG	4.31	38.747	72.043	36.356	1.00 68.15	AAAA C
I IOTA	4127 4128	CB CG	ARG ARG	431 431	37.348 37.345	71.748 71.815	36.898 38.430	1.00 73.32	AAAA C AAAA C
ATOH	4129	CD	ARG	431	37.345	73.279	38.860	1.00 88.39	AAAA C
ATOH	4130	HE	ARG	431	37.698	73.472	40.258	1.00 92.48	II AAAA
ATOH	4132	C3	ARG	431	36.835	73.259	41.259	1.00 94.93	C AAAA II AAAA
ATOH ATOH	4133 4136		ARG ARG	431 431	35.610 37.021	72.872	40.872 42.567	1.00 95.17	II AAAA
ATOH	1139	0	ARG	431	39.718	70.986	36.877	1.00 67.75	FAAA C
ATOH	4140	9	ARG	431	40.637	71.292	37.629	1.00 66.74	O AAAA
ATOH HOTA	4141 4143	:: CA	HET	432 432	39.511 40.437	69.791 68.703	36.305 36.652	1.00 63.87	AAAA 11 AAAA C
🗸	1747	-71	1	7 3 4	40.437	.,		2.22 41.44	•

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ATCH	4144	CB	HET	432	49.237	67.522	35.719	1.00 54.25	taaa c
ATOH	4145	ĊĞ.	HET	432	41.254	66.426	35.971	1.00 40.18	AAAA C
ATO!	4146	SD	!!ET	432	40.829	64.925	35.112	1.00 52.21	AAAA S
ATOH		CE	HET				36.137	1.00 54.99	AAAA C
	4147			432	41.502	63.681			AAAA C
1 IOTA	1716	Ċ	TET	432	41.991	69.170	36.626	1.00 64.65	AAAA O
ATCH	4115	O	HET	432	40.530	68.992	37.653	1.00 65.89	
ATOH I	4150	1:	GLU	133	42.331	69.811	35.556	1.00 65.78	AAAA II
TOIL	4152	СA	らしい	433	43.622	70.469	35.510	1.00 69.16	AAAA C
NOTE	4153	CB	らしい	433	43.704	71.506	31.401	1.00 69.58	AAAA C
HOTA	4154	CG	SLII	433	44.121	70.967	33.048	1.00 76.91	AAAA C
TOIL	4155	CD	GLU	433	44.623	72.149	32,242	1.00 82.02	AAAA C
ATOH	4156	051		433	44.718	73.224	32.874	1.00 86.82	O AAAA O
TOI:	4157	OE2	GLU	433	44.905	72.050	31.042	1.00 88.26	O AAAA O
-	4158		GLU	433	44.016		36.781	1.00 71.29	AAAA C
ATOH		Č	GLU			71.219		1.00 74.29	AAAA O
ATOH	4159	O		433	45.133	71.083	37.294		II AAAA
TOM:	4160	11	GLU	134	43.178	72.120	37.280	1.00 72.93	
ATON1	4152	CV	GLU	434	43.505	72.873	38.485	1.00 72.86	AAAA C
ATCH!	4163	CB	GLU	131	42.458	73.916	38.840	1.00 81.36	AAAA C
ATOH	4164	CG	GLU	434	41.191	73.956	38.032	1.00 83.34	AAAA C
RTOH	4165	CD	GLU.	131	40.191	75.004	38.432	1.00 97.32	AAAA C
HOTA	4166	OE1	GLU	434	39.521	74.929	39.505	1.00 97.34	AAAA O
ATOH	4167	OE2		434	40.080	75.941	37.583	1.00 99.95	O AAAA
HOTE	1168	C	GLU	434	43.675	71.886	39.632	1.02 71.46	AAAA C
	4169	ō	GLU	434	44.728	71.858	40.251	1.00 78.49	AAAA O
1017								1.00 66.34	AAAA N
ATOH.	4170	N	VAL	435	42.670	71.095	39.926	1.00 62.49	AAAA C
INT	4172	CA	VAL	435	42.711	70.129	41.001		AAAA C
TOIL	4173	CB	VAL	435	41.451	69,217	40.972	1.00 60.38	
ATOH:	4174	CGI	VAL	435	41.547	68.214	42.194	1.00 52.32	AAAA C
TOTE	4175		VAL	135	10.203	70.073	41.029	1.00 50.79	AAAA C
TOIL	4176	C	VAL	435	43.939	69.253	41.018	1.00 60.74	AAAA C
STOH	4177	Q	VAL	435	44.607	69.165	42.034	1.00 62.37	O AAAA O
HOTA	4178	11	THR	436	44.282	68.506	39.988	1.00 60.67	H AAAA H
HOTA	4180	CA	THR	436	45.335	67.516	39.936	1.00 56.36	AAAA C
	4181	CB	THR	436	45.199	66.565	38.736	1.00 50.92	AAAA C
ATON								1.00 47.03	AAAA O
HOTA	4182	OG1		436	44.913	67.283	37.503	1.00 54.38	AAAA C
HOT:A	4184	CG2		136	44.108	65.526	38.901		
110TA	4185	C	THR	136	46.701	68.184	39.930	1.00 60.55	AAAA C
ATO!!	1186	0	THR	436	47.714	67.490	40.024	1.00 60.61	AAAA O
HOTA	4197	Ħ	GLY	437	46.836	69.496	39.835	1.00 60.65	N AAAA
ATOH	4199	CA	GLT	437	48.102	70.164	39.749	1.00 59.47	аааа с
ATO!!	4190	C	GLY	437	48.800	69.864	38.424	1.00 64.78	AAAA C
11OTA	4191	0	GLY	437	49.983	70.254	38.245	1.00 62.70	O AAAA
ATOI-I	4192	11	THR	138	48.112	69.387	37.380	1.00 63.79	II AAAA II
ATOI:	4194	CA	THR	438	48.731	69.169	36.076	1.00 65.09	AAAA C
ATOH	4195	CB	THR	438	17.967	68.027	35.411	1.00 66.87	AAAA C
	4196		THR	438	46.600	68.385	35.731	1.00 62.22	AAAA O
MOTA								1.00 68.74	AAAA C
HOTA	4198		THR	438	48.208	66.659	36.019	1.00 66.14	AAAA C
ATOH	4100	Ç	THR	438	18.590	70.415	35.220		AAAA O
ATOI:	4200	0	THR	438	49.003	70.543	34.070	1.00 68.05	
ATOH	4201	11	LTS	130	48.083	71.481	35.822	1.00 67.37	AAAA II
HOTA	4203	CA	LIS	439	47.927	72.757	35.154	1.00 71.08	AAAA C
ATOH	4204	ĊВ	LYS	429	47.114	73.708	36.034	1.00 69.23	AAAA C
ATOH	4205	CG	LYS	430	46.677	74.938	35.265	1.00 77.26	aaaa c
ATOH:	4206	CD	LY3	439	45.832	75.940	36.014	1.00 81.65	AAAA C
ATO!!	4207	CE	LYS	139	44.395	75.475	36.182	1.00 87.39	AAAA C
HOTA	4208	112	LTS	139	43.667	76.431	37.100	1.00 93.85	AAAA 11
ATOH	4212	C	LYS	439	49.249	73.396	34.752	1.00 73.01	AAAA C
ATOH			LTS	139				1.00 74.60	AAAA O
				_			33.4-1	1.00 73.33	AAAA II
ATOH	4214	11	GLY	440	19.517	73.453		1.00 71.39	AAAA C
ATOH	4216	CA	GLï	440	50.733	74.167	33.014	1.00 71.39	AAAA C
ATOIT	4217	Ċ	GLY	440	51.716	73.204	32.389		
ATOH	1218	0	GLT	440	52.684	73.650	31.822	1.00 72.70	AAAA O
HOTA	4219	11	ARG	441	51.445	71.908	32.436	1.00 72.99	H AAAA
ATOH	4221	CA	ARG	441	52.343	70.945	31.831	1.00 74.12	AAAA C
ATOH	4222	CB	ARG	441	53.617	69.740	32.716	1.00 69.44	AAAA C
ATOH	4223	CG	ARG	441	51.847	69.695	34.003	1.00 63.34	AAAA C
ATOH	4024	CD	ARG	441	52.060	68.314	34.595	1.00 67.64	AAAA C
ATOH	4225	HE	ARG	441	50.044	68.395	36,030	1.00 61.00	AAAA 11
ATON	4227	cs	ARG	4.11	52.326	67.357	36.831	1.00 59.21	AAAA C
	4228		ARG	441	52.258	66.117	36.395	1.00 60.57	II AAAA
ATOH			ARG		52.168	67.596	38.128	1.00 72.94	AAAA II
ATOH	4231			441		70.446	30.511	1.00 73.50	AAAA C
ATOH	4234	C	ARG	441	51.760			1.00 74.73	AAAA O
ATOH	4235	0	ARG	441	52.195	69.424	30.012	1.00 74.73	AAAA II
ATOH	4236	11	GLII	412	50.732	71.114	30.043		
ATOH	4238	CA	GLII	442	19.959	70.646	28.914	1.00 75.13	AAAA C
HOTA	4239	CB	GLII	442	48.457	70.875	29,126	1.00 68.73	AAAA C
ATOH	4240	CG.	GLH	442	47.669	69.576	29.195	1.00 71.20	AAAA C
ATOH	4241	CD	GLH	442	47.623	69.028	30.607	1.00 70.98	AAAA C
ATOH	4242		GLII	442	47.714	67.822	30.868	1.00 78.66	AAAA O
HOTA	4243		GLII	442	47.477	69.907	31.584	1.00 66.86	AAAA II
ATOII	4246	Ç	GLII	442	50.326	71.359	27.627	1.00 77.69	AAAA C
	4247	ò	GLII	442	\$0.227	72.569	27.530	1.00 75.57	O AAAA
ATOH						70.554	26.575	1.00 81.51	AAAA II
ATOH	1518	11	ALA	113	50.474			1,30 82.95	AAAA C
ATOH	4250	ĊΛ	ALA	443	50.643	71.149	25.236	1.30 81.69	AAAA C
ATON	4251	CB	ALA	443	51.104	70.118	24.229	51.05	

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ATCH	4050	c	ALA	443	49.259	71.706	24.952	1.00 83.73	AAAA C
ATCH!	4253	0	ALA	443	48.398	71.744	25.830	1.90 83.87	AAAA C
ATOH	4254 4256	!I CA	LYS LYS	444	48.914 47.559	72.052 72.524	23.713 23.482	1.00 86.20 1.00 85.88	AAAA II AAAA C
ATCH	4257	CB	LYS	444	47.426	73.997	23.128	1.00 83.99	AAAA C
ATCH ATCH	4258 4259	CO CO	LYS LYS	444	46.673 45.883	74.734	24.241	1.00 93.60 1.00 95.14	АААА С АААА С
ATOH	1260	CE	LYS	444	16.390	73.786	26.614	1.00 97.04	аааа с
ATOH	4261	1:12	LTS LTS	444 444	45.368	73.090	27.473	1.00 97.22	AAAA C
ATOH ATOH	4265 4266	ò	LTS	111	46.659 45.428	71.779 71.901	22.635	1.00 85.63	O AAAA
ATOH	4267	[]	GLY	445	47.214	70.734	21.916	1.20 78.85	AAAA II
ATOH ATOH	4269 4270	CA C	GLY GLY	445	46.368 45.803	69.786 68.844	21.208	1.00 75.06 1.00 72.30	AAAA C AAAA C
ATON	4271	0	GLY	445	44.963	67.993	21.940	1.00 74.90	AAAA O
ATOH ATOH	4272 4274	(I CA	ASP ASP	446 446	46.300 45.914	68.981 68.174	23.492 24.642	1.00 67.97 1.00 62.81	AAAA II AAAA C
ATOH	1275	СВ	ASP	116	46.754	68.552	25.873	1.00 55.24	AAAA C
ATOH:	4276	CG	ASP	416	48.213	68.169	25.801 24.946	1.00 54.07 1.00 45.08	AAAA C AAAA O
ATOH ATOH	4277 4278		ASP ASP	446 446	49.091	67.385 68.595	26.593	1.00 50.13	AAAA O
HOTA	4279	Ċ	ASP	446	44.438	68.274	25.016	1.00 58.07	AAAA C
ATOH ATOH	4280 4281	0 !!	ASP ILE	447	43.610 44.043	67.369 69.527	25.127 25.226	1.00 55.59 1.00 54.13	AAAA C AAAA II
ATOH	4283	CA	ILE	447	42.652	69.822	25.510	1.00 54.09	AAAA C
ATOH	4284 4285	OB OG2	ILE ILE	447 447	42.505 41.030	70.502 70.663	26.877 27.182	1.00 48.92	AAAA C AAAA C
HOTA HOTA	4286		ILE	447	13.211	69.621	27,932	1.00 52.36	AAAA C
ATO:	4287		ILE	447	43.468	70.323	29.237	1.00 48.47	AAAA C
ATOH ATOH	1288 1289	0	ILE ILE	447	42.027 41.718	70.591 71.772	24.364	1.00 53.06 1.00 56.08	C AAAA O AAAA
ATOH	4290	11	ASII	448	41.625	69.915	23.307	1.00 53.17	AAAA II
ATOH MOTA	4292 4293	CA CB	asu Asu	418 418	41.013 41.283	70.642 69.982	22.202	1.00 54.61 1.00 49.17	AAAA C AAAA C
HOTA	4294	CG	ASII	118	40.415	68.786	20.577	1.00 49.40	AAAA C
ATOH!	4295		ASH	448	39.287	68.977	20.113	1.00 52.34 1.00 52.49	AAAA O AAAA II
ATOH ATOH	4296 4299	C	ASII ASII	448 448	40.990 39.518	67.622 70.824	22.402	1.00 56.44	AAAA C
HOTA	4300	0	ASII	448	38.816	69.974	22.939	1.00 55.83	AAAA O
ATOH ATOH	4301 4303	II CA	THR THR	449 449	39.071 37.682	71.917 72.351	21.764 21.901	1.00 58.52 1.00 58.62	AAAA C
ATOH	4304	CB	THR	449	37.497	73.845	22.169	1.00 55.90	AAAA C
ATCH ATOH	4305 4307	OG1 CG2	THR THR	449 449	37.913 39.354	74.485 74.352	20.943	1.00 68.89 1.00 59.06	AAAA O AAAA C
ATOM	4308	C	THR	410	36.920	72.053	20.628	1.00 56.82	AAAA C
ATOH ATOH	4309 4310	11 O	THR ARG	450 449	35.750 37.539	72.381 71.304	20.473 19.757	1.00 60.87 1.00 55.76	aaaa c aaaa ii
ATOH	4312	CA	ARG	450	36.887	70.935	18.507	1.00 54.66	AAAA C
ATOH	4313	CB	ARG	450	37.845	71.179	17.377	1.00 48.33	AAAA C AAAA C
ATOH ATOH	4314 4315	CG CD	ARG ARG	450 450	38.385 39.487	69.975 70.561	16.645 15.696	1.00 44.92	AAAA C
ATOH	4316	HE	ARG	450	40.706	70.719	16.489	1.00 52.49	AAAA !:
ATOH HOTA	4319	CS NH1	ARG ARG	450 450	41.544 41.176	69.757 68.572	16.882 16.466	1.00 39.08 1.00 41.07	AAAA II
ATOH	4322	11H2	ARG	450	42.601	70.001	17.610	1.00 45.18	AAAA !!
ATON ATON	4325 4326	0	ARG ARG	450 450	36.267 35.186	69.553 69.303	18.557 17.992	1.00 56.82 1.00 58.15	AAAA C AAAA O
HOTA	1327	11	ASII	451	36.800	68.583	19.324	1.00 56.66	II AAAA
ATON	4329	CA CB	ASH	451	36.107	67.311	19.434 18.760	1.00 50.27 1.00 48.54	D AAAA D AAAA
ATOH ATOH	4330 4331	CG	ASH ASH	451 451	36.725 38.243	66.127 66.143	18.764	1.00 60.51	AAAA C
ATOH	4332		ASII	451	38.779	66.279	19.855	1.00 53.45 1.00 54.88	aaaa ii
ATON ATON	4333 4336	C C	ASII ASII	451 451	38.707 35.849	65.976 66.854	17.506 20.869	1.00 52.97	AAAA C
ATOH	4337	O	ASH	451	35.330	65.750	21.096	1.00 49.71	AAAA C
HOTA	1310 1338	II CA	ASH ASH	450 152	36.126 35.769	67.668 67.485	21.951 23.229	1.00 51.98 1.00 55.88	AAAA II AAAA C
ATOH	4341	CB	ASH	452	36.947	67.873	24.136	1.00 54.62	AAAA C
HOTA HOTA	4342 4343	CG	ASH ASH	452 452	37.936 37.646	66.736 65.633	24.285	1.00 60.96 1.00 51.30	AAAA C AAAA C
ATOH	4344		ASH	452	39.153	67.098	23.855	1.00 56.75	AAAA II
ATOH	4347		ASH	452	34.603	68.385	23.689 23.657	1.00 58.11 1.00 55.07	AAAA C
ATOH ATOH	4348	0	ASH GLY	453 453	34.785 33.444	69.629 67.813	23.985	1.00 55.08	AAAA I:
ATOII	4351	CA	GLY	453	32.313	68.658	24.296	1.00 59.47 1.00 64.95	AAAA C AAAA C
HOTA HOTA	4352 4353	ر د	GLY GLY	453 453	31.500 30.302	69.269 69.603	23.174	1.00 65.71	AAAA O
ATOH	1351	11	GLU	124	31.910	69.109	21.910	1.00 67.44	AAAA 1;
HOTA	4356	CB	GLU GLU	454	31.266	69.543 68.818	20.690	1.00 63.63 1.00 53.71	AAAA C AAAA C
ATOH ATOH	4357 4358	ÇĞ	GLU	424 424	31.739 32.349	67.430	19.739	1.00 49.50	AAAA C
ATOH	1359	ĊĐ	GLU	454	32.368	66.620	19.454	1.00 54.61 0.01 54.10	AAAA C C AAAA
ATOH ATOH	4360 4360		GLU	454 454	31.368 33.417	66.637 66.003	17.702	0.01 54.10	AAAA C
ATOH	1362	;	GLU	454	29.762	69.301	20.767	1.00 65.41	AVAX C

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			~	16.1	23.322	70.455	43/58		O AAAA
ATCII ATCII	1361 1363	0	GI.U ARG	454 455	29.022 29.288	70.089 69.187	20.169 21.333	1.00 67.86 1.00 66.45	AAAA II
ATOH	1366	CA	ARG	455	27.843	67.997	21.371	1.00 69.33	AAAA C
ATCII	4367	CB	AR-3	155	27.448	66.733	20.652	1.00 73.38	AAAA C
atoii Atoii	1369 1368	CG	ARG ARG	455 455	28.467 27.775	65.912 64.740	19.924	1.00 74.27	AAAA C AAAA C
ATO!	1370	HE	ARG	455	27.301	63.638	20.052	1.00 86.31	AAAA N
ATON	4372	CZ	ARG	455	27.802	62.412	20.189	1.00 88.60	AAAA C
ATCH	4373 4376		ARG ARG	455 455	28.990	61.997	19.538	1.00 84.51 1.00 87.36	11 AAAA 11 AAAA
ATOH ATOH	4379	C	ARG	455	27.225 27.213	61.523 67.934	21.003	1.00 67.35	AAAA C
ATCI1	4380	C	ARG	455	26.423	67.025	22.961	1.00 66.26	AAAA O
ATCH	4381	II.	ALA	456	27.199	68.879	23.623	1.00 66.52	AAAA C
atoh Atoh	4384 4383	CB CB	ALA ALA	456 456	26.947 27.832	68.906 68.147	24.964 25.939	1.00 72.01 1.00 61.84	AAAA C
ATOH	1385	c	ALA	456	26.802	70.379	25.371	1.00 75.25	AAAA C
ATOH	1386	0	ALA	456	27.706	71.219	25.202	1.00 81.30	AAAA O AAAA H
ATOH ATOH	4387 4389	:I CA	SER SER	457 457	25.653 25.431	70.720 72.095	25.939 26.358	0.50 71.91 0.50 69.64	AAAA C
HOTA	4390	CS.	SER	457	23,991	72.247	26.836	0.50 73.30	AAAA C
ATOI1	1391	OG	SER	457	23.422	73.294	26.060	0.50 73.31	AAAA O
ATOH ATOH	4394	0	SER SER	457 457	26.418 26.458	72.510 71.957	27.437 28.530	0.50 69.27 0.50 67.32	AAAA C AAAA O
ATOH ATOH	4395	ii.	CYS	458	27.197	73.531	27.117	0.50 70.44	AAAA II
ATCII	4397	CA	CYS	458	28.287	73.960	27.972	0.50 72.57	AAAA C
ATOH!	4398	C	Cis	458	27.949	75.205	28.757	0.50 72.54	AAAA C
ATOH ATOH	4399	O CB	CYS	458 458	27.065 29.527	75.128 74.171	29.606 27.089	0.50 76.63 0.50 75.38	AAAA O AAAA C
ATOH	4401	SG	CYS	458	30.844	73.032	27.490	0.50 72.18	AAAA S
ATOH	4402	11	ALA	459	28.607	76.306	28.441	0.50 70.13	AAAA II
ATOH	4404	CA	ALA	129	28.445	77.572	29.116	0.50 70.05 0.50 70.57	AAAA C AAAA C
ATO!!	4405 4406	C.B	ALA	459 4 5 9	27.046 28.826	78.149 77.461	28.996 30.601	0.50 70.13	AAAA C
AT'OH	4407	Q	ALA	459	29.080	78.556	31.154	0.50 69.96	AAAA O
ATOM	4407	OT	ALA	459	28.855	76.301	31.054	0.50 68.22	АААА О АААА С
ATOH ATOH	4522 4524	C1 C2	HAG	461 461	59.581 59.964	7.102 7.3 3 8	61.119 59.697	1.00 88.13 1.00 91.94	AAAA C
ATOH	1526	112	HAG	461	58.738	7.699	58.920	1.00 92.72	. AAAA !!
ATOH	4528	C7	HAG	461	58.400	9.020	58.999	1.00 96.97	AAAA C
ATON: ATOM	4529 4530	O7 C8	HAG	461 461	58.879 57.323	9.774 9.390	59.726 58.043	1.00 98.62 1.00100.60	AAAA O AAAA C
ATOH	4534	C3	HAG	461	60.725	6.225	59.085	1.00 94.77	AAAA C
ATCI:	4536	03	HAG	461	61.417	6.725	57.930	1.00 98.51	AAAA O
ATOH	4538 4540	C4 O4	NAG	461 461	61.873 62.661	5.869 4.821	60.064 59.484	1.00 96.01 1.00 99.20	AAAA C AAAA O
ATOH NOTA	4542	C5	HAG	461	61.359	5.529	61.474	1.00 95.13	AAAA C
HOTA	4545	Ç6	HAG	461	62.465	5.321	62.495	1.00 93.66	AAAA C
POTA	4548	06	HAG	461	62.745	6.364	63.354	1.00 92.13 1.00 91.92	O AAAA O AAAA
ATOH ATOH	4544 4550	05 C1	HAG	461 463	60.625 33.054	6.648 15.249	61.949 72.938	1.00 43.58	AAAA C
ATOH	4552	C2	HAG	463	31.644	15.282	73.412	1.00 43.62	aaaa c
ATOH	1554	112	HA-5	463	30.709	14.527	72.541	1.00 42.16	AAAA II
ATOH ATOH	4556 4557	C7 07	DAII	463 463	29.912 29.928	13.584 13.406	73.099 74.222	1.00 40.84	AAAA C AAAA O
ATON	4558	C8	HAG	463	28.975	12.694	72.394	1.00 35.47	AAAA ©
	4562	C3	HAG			16.675	73.448		AAAA C
ATCH	1564	03	HAG	463	29.979	16.555	74.196	1.00 45.99	AAAA O AAAA C
ATOH ATCH	4566 4568	01 C1	HAG	163 163	32.117 31.596	17.617 18.919	74.171 73.891	1.00 50.36 1.00 53.97	AAAA O
ATOH	4569	C5	HAG	463	33.589	17.477	73.725	1.00 48.50	AAAA C
ATOH	4572	C6	HAG	463	34.490	17.996	74.742	1.00 48.34	AAAA C
ATOH HOTA	4575 4571	06 05	HAG	463 463	34.906 33.942	18.739	75.671 73.583	1.00 57.11 1.00 48.58	AAAA Q AAAA O
ATOH	4576	Cl	EUC.	164	34.544	19.954	76.083	1.00 81.45	AAAA C
HOTA	4578	C2	EUC	464	35.179	21.173	75.463	1.00 86.35	AVAV C
MOTA	4579	02	FUC	464	35.153	21.169	74.021 75.945	1.00 92.94 1.00 86.79	AAAA C
ATOH HOTA	4582 4584	C3	FUC FUC	464 464	34.252 34.691	23.613	75.596	1.00 87.83	AAAA O
HOTA	4586	C4	EUC	464	33.871	22.274	77.412	1.00 86.67	AAAA C
ATCH	1588	04	FUC	464	34.508	23.297	78.115	1.00 87.06	AAAA O
ATOH: ATOH	4590 4590	C5 C6	FUC FUC	164 164	33.921 34.279	20.894	78.040 79.512	1.00 85.85 1.00 83.37	AAAA C
ATOIL	4592	05	FUC	464	35.042	20.150	77.425	1.00 82.43	.aaaa o
HOTA	4597	CI	HAG	165	31.575	19.813	74,940	1.00 64.68	AAAA C
ATOH	1599	C2	HAG	465	31.267	21.207	74.437 73.690	1.00 69.57	AAAA C AAAA II
ATOH ATOH	4603 4601	112 C7	HAG	165 165	32.480 32.401	21.642	72.381	1.00 73.86	AAAA C
HOTA	4604	07	NAG	465	31.373	21.835	71.881	1.00 74.80	AAAA O
I-IOTA	4605	C8	HAG	165	33.679	22.401	71.787	1.00 76.00	AAAA C
ATOH HOTA	4609 4611	03 03	HAG	465 465	31.050	22.214	75.54 <i>6</i> 75.108	1.00 72.71 1.00 71.03	AAAA C AAAA O
ATGH	4613	C4	HAG	465	30.713 30.035	21.654	76.560	1.00 75.71	AAAA C
ATOH:	4615	01	E-AII	465	29,993	22.409	77.793	1.00 76.79	AAAA O
ATCI:	1617	CS CG	HAG	165	30.498	20.238	76,977 77,930	1.00 75.45 1.00 75.64	AAAA C AAAA C
HOTA	1620	4:6	E-AH	165	29.461	19.647		1.00 13.04	

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ATON	4623	Oij	HAG	465	28.385	19.239	77.142	1.00 76.05	AAAA O
ATOH:	4619 4625	05 C1	HAG	465 467	30.514 49.927	19.425	75.807 87.926	1.00 71.44 1.00 96.51	O AAAA O AAAA
ATOH	1627	C2	HAG	467	50.538	11.751	89.100	1.00 99.92	AAAA C
ATOH ATOH	4629 4631	H2 C7	HAG	467 467	49.662 49.299	12.898	89.459 90.759	1.00101.79	AAAA C
ATCH	4632	07	HAG	167	49.541	12.267	91.586	1.00105.48	AAAA O
ATCH ATCH	4633 4637	C8 C3	HAG HAG	467 467	48.526 51.967	14.239	91.102 88.802	1.00105.02	AAAA C AAAA C
ATOH	4639	úЗ	HAG	467	52.535	12.761	89.949	1.00100.89	O AAAA
HOTA HOTA	4641 4641	04 C4	HAG	467 467	52.643 54.067	10.771	88.506 99.441	1.00101.15	AAAA C AAAA O
ATOH	1615	C5	HAG	467	52.039	10.160	87.219	1.00100.16	AAAA C
ATOH ATOH	4651 4651	06 06	HAG HAG	467 467	52.746 52.088	8.852 7.704	86.934 87.302	1.00 99.75 1.00101.54	AAAA C AAAA O
ATO!!	1617	05	HAG	157	50.671	9.918	87.503	1.00 98.59	AAAA O
HOTA	4653 4655	C1 C2	HAG	469 469	55.375 56.601	46.143	66.863 66.861	1.00 48.45 1.00 50.42	AAAA C AAAA C
ATOI1	4657	112	HAG	165	57.106	47.015	65.451	1.00 51.50	II AAAA
ATOH ATOH	1660 1623	€7 07	HAG HAG	185 185	57.135 56.849	48.143	64.746 65.234	1.00 48.88 1.00 55.62	O AAAA O AAAA
ATCH	4661	C8	NAG	469	57.838	48.134	63.394	1.00 43.70	AAAA C
ATOH ATOH	4665 4667	C3	HAG HAG	469 469	57.608 58.640	46.491	67.844 68.031	1.00 49.62 1.00 47.76	AAAA C AAAA O
ATCH1	1669	C4	HAG	469	56.843	46.263	69.172	1.00 48.47	AAAA C
ATOH ATOH	4671 4672	C2	HAG	469 469	57.826 55.847	45.80C 45.130	70.134 68.959	1.00 50.06 1.00 50.81	AAAA O AAAA C
ATON	4675	ÇĢ	HAG	469	55.190	44.720	70.239	1.00 53.92	AAAA C
ATOH ATOH	4678 4674	06 05	HAG HAG	469 469	54.829 54.914	45.551 45.599	71.193 68.043	1.00 56.25 1.00 55.45	O AAAA O AAAA
ATCH!	4679	Cl	FUC	470	53.830	46.395	71.203	1.00 61.17	AAAA C
ATOH ATOH	4681 4682	02 02	FUC FUC	470 470	53.642 54.861	47.121 46.876	72.534 73.241	1.00 59.23	AAAA C AAAA O
ATON	1685	СЗ	FUC	470	53.421	48.429	71.757	1.00 58.39	AAAA C
ATOH	4687 4689	03 04	EUC EUC	470 470	53.381 52.245	49.515	72.637 70.809	1.00 56.30	AAAA C
ATO!!	4691	04	FUC	470	51.061	47.904	71.544	1.00 63.74	O AAAA
ATOH ATOH	4693 4696	C5 C6	EUC EUC	470 470	52.455 51.462	47.086 46.723	69.828 68.784	1.00 62.20 1.00 59.15	АААА С АААА С
ATO11	1695	05	FUC	470	52.567	45.889	70.781	1.00 64.68	AAAA O
I 1OTA NOTA	4700 4702	C1 C2	HAG HAG	471 471	58.034 58.977	46.760 46.225	71.149 72.186	1.00 37.00	AAAA C AAAA C
ATOH	4704	112	HAG	471	58.958	44.787	72.509	1.00 36.82	AAAA H
HOTA HOTA	4706 47 <u>9</u> 7	C7 07	HAG HAG	471 471	57.856 56.892	44.183	72.903 72.885	1.00 44.21	AAAA C AAAA O
ATOI	4708	C8	HAG	471	58.202	42.814	73.323	1.00 46.02	AAAA C
ATOH ATCH	4712 4714	C3 O3	HAG HAG	471 471	\$8.901 \$9.698	47.250 46.917	73.291 74.385	1.00 34.50 1.00 35.84	AAAA C AAAA O
ATOH	4716	C4	HA/5	471	59.645	48.488	72.694	1.00 38.52	AAAA C
HOTA		04 05	HAG	471 471	\$9.754 \$9.056	49.464 48.959	73.694 71.332	1.00 37.44 1.00 36.94	AAAA C AAAA C
ATOH	4722	C 6	NAG	471	60.116	49.692	70.525	1.00 36.14	AAAA C
HOTA		ი6 ინ	HAG	471 471	61.106 58.853	50.390 47.785	71.080 70.530	1.00 43.49 1.00 34.98	0 AAAA 0 AAAA
ATCH	4727	Cl	HAH	472	61.035	19.984	73.959	1.00 53.37	AAAA C
ATOH HOTA	4729 4730	C2 O2	HAH	472 472	60.920 59.924	51.497 51.584	74.260 75.272	1.00 56.72 1.00 62.11	АЛАЛ С АААА О
A'TOH	4733	Ç3	HAH	472	62.216	52.031	74.840	1.00 60.70	AAAA C
HOTA	4735 4736	03 04	HAH	472 472	62.028 62.787	53.337 51.161	75.383 75.932	1.00 60.70 1.00 55.46	AAAA C AAAA C
ATOH	4738	O4	HAII	472	64.095	\$1.595	76.171	1.00 57.16	AAAA O
ATOH ATOH		CS C6	HAH	472 472	62.797 6 3.4 58	49.685 48.905	75.511 76.595	1.00 52.10 1.00 50.32	AAAA C AAAA C
ATOH	4746	06	HAH	472	62.990	48.969	77.885	1.00 51.02	AAAA O
ATOH ATOH	4742 4748	OS Cl	HAH	472 473	61.443 62.594	49.407 54.401	75.200 74.672	1.00 53.33	AAAA C AAAA C
ATOH	4750	C::	HAH	473	62.417	55.679	75.569	1.00 75.28	AAAA C
ATCH ATCH	4751 4754	C3	HAH	473 473	63.378 60.977	56.709 56.163	75.348 75.493	1.00 74.98 1.00 78.65	AAAA 0 AAAA C
ATOH		03	HAH	473	60.941	57.447	76.148	1.00 79.16	AAAA O
ATON ATON		C4 Q4	HAH	473 473	60.344 58.983	56.204 56.571	74.114 74.178	1.00 78.70 1.00 78.93	AAAA C AAAA O
NTOH		05	нан	473	60.499	54.802	73.474	1.00 76.89	AAAA C
ATOH ATOH		06 06	HAH	473 173	59.968 60.239	54.490 55.469	72.091 71.138	1.00 74.73	7444 C
HOTA	4764	05	HAH	473	61.916	54.560	73.463	1.00 74.97	AAAA O
ATOH ATOH	4408 4408	C CB	ALA ALA	479 479	42.462 40.017	74.494	16.374 17.001	1.00 82.09 1.00 91.42	8888 C
ATOH!	4410	O.	ALA	179	40.393	75.108	18.103	1.00 96.11	BBBB 0
ATON ATON		CA U	ALA ALA	47 <u>9</u> 479	40.696 41.033	74.461 71.108	14.624	1.00 86.43 1.00 89.85	8888 C
HOTA	1116	11	ALA	480	38.749	74.752	16.610	1.00 92.12	BBBB II
ATOH ATOH	1118 1119	CB CA	ALA ALA	480 480	37.684 37.925	75.264 76.731	17.467 17.769	1.00 91.26 1.00 86.84	BBBB C BBBB C
POTA		¢	ALA	180	36.306	75.030	16.849	1.00 91.39	BBBB C

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HOTA	4421	ń	ALA	490	35.413	74.647	17.610	1.00 93.79	8888 O
ATOH	4422	:1	GLH	181	36.135	75.304	15.564	0.91 89.69	11 8886
ATOH ATOH	4452	CA CB	GLII	481 481	34.832 34.471	75.164 76.492	14.915	1.00 87.10 0.01 92.74	2888 C
ATOI1	1156	C 5	GLII	481	34.277	77.627	15.220	1.00 99.93	8888 C
ATOH ATOH	1427	OE1	GLU	481 481	34.067 35.011	79.003 79.777	14.626 14.381	1.00103.59	9888 C 8888 O
ATOH	4429		GLH	481	32.792	79.328	14.398	1.00108.00	6888 11
ATON	4432	Ċ	GLil	481	34.755	73.947	14.005	1.00 85.31	6888 C
ATOH ATOH	1131 1133	11 C	GLH LYS	485 481	33.736 35.849	73.508 73.188	13.456 13.908	1.00 83.41	9888 O
ATOH	1136	CA	LT3	482	35.982	71.990	13.089	1.00 73.49	8288 C
HOTA	4437	CB C3	LYS	192 182	37.377	71.930	12.480	1.00 73.13	8888 C 8889 C
ATOH ATOH	4439 4439	CD	LYS	187	38.287 39.413	72.968	12.494	1.00 80.62	8888 C
ATOH:	1110	CE	LYS	482	39.985	74.310	11.027	0.01 76.66	BBBB C
ATCH ATCH	4441	G HC	LYS LYS	482 482	41.252 35.779	74.136	10.262	0.01 76.20 1.00 67.70	8888 C
ATOH	1446	ó	ins	182	35.879	70.744	15.090	1.00 69.99	BBBB O
ATOH:	4447	11	LEU	183	35.530	69.585	13.199	1.00 61.47	8888 11
ATON ATON	4449	CA CB	LEU	483 483	35.193 34.256	68.356 67.529	13.896 13.039	1.00 59.03 1.00 55.20	8888 C 8888 C
ATOH	4451	CG	LEU	483	32.779	67.860	12.875	1.00 61.94	ease c
ATOM	4452 4453		LEU	163	32.405	69.154	13.595 11.395	1.00 44.78	8888 C 8888 C
HOTA HOTA	4454	C	LEU	483 483	32.433 36.421	67.707 67.509	14.229	1.00 59.73	BBBB C
ATOH	1455	0	LEU	483	36.465	66.709	15.165	1.00 57.22	BBBB O
ATOH ATOH	4456 4458	ri CA	ILE	484 184	37.345 30.597	67.543 66.800	13.262 13.367	1.00 56.21 1.00 52.58	8888 C
ATOH	4459	CB.	[LE	484	38.490	65.390	12.870	1.00 50.27	2888 C
ATON	4460		LLE	484	37.769	65.319	11.524	1.00 44.85	BBBB C
ATOH ATOH	$\frac{4461}{4462}$	CS1	ILE	484 484	39.870 39.889	64.766 63.291	12.756 12.404	1.00 39.78	8888 C
110TA	4463	Ç	ILE	184	39.623	67.645	12.608	1.00 53.49	вввв С
ATOH	1161	0	ILE SER	484 485	39.158 40.911	68.568 67.499	11.942 12.887	1.00 48.33	9888 O 8888 M
HOTA HOTA	4465 4467	CA	SER	485	41.898	68.335	12.209	1.00 49.78	BBBB C
ATOH	4468	CB	SER	485	41.969	69.753	12.747	1.00 46.06	BBBB C
ATOH ATOM	4469 4471	OG C	SER	485 485	43.190 43.294	70.035 67.711	13.376	1.00 63.03 1.00 50.57	BBBB O BBBB C
HOTA	4472	ò	SER	485	43.510	66.601	12.740	1.00 46.55	8888 0
ATOI1	4473	11	GLU	486	44.246	68.389	11.604	1.00 52.16 1.00 59.12	8888 N
ATOH ATOH	4475 4476	CB CB	GLU	486 486	45.624 46.547	67.874 68.683	11.509 10.598	1.00 59.71	BBBB C
ATOI:	4477	ÇG	GLU	486	46.221	70.162	10.568	1.00 76.75	BBBB C
ATOM ATOM	4478 4479	CD	GLU	486 486	47.370 48.315	71.045	10.983 11.472	1.00 80.53 1.00 91.67	8888 C 9888 O
ATOH	1180		GLU	486	47.480	72.289	10.897	1.00 86.00	BBBB O
ATOH	4481	Ç	GLU	186	46.272	67.773	12.896	1.00 56.50 1.00 49.83	BBBB C
ATOH ATOH	4482 4483	1; O	GLU	488 437	46.768 45.985	66.747 68.738	13.326	1.00 58.37	8888 O
ATOH	4495	CA	GLU	487	46.129	68.736	15.169	1.00 59.36	888B C
ATON ATON	4486	08 03	GLU GLU	497 487	45.303 45.645	69.887 70.232	15.729 17.159	1.00 61.32 1.00 79.21	8888 C 8888 C
ATOH	4488	CD	GLU	487	46.307	71.545	17.177	1.00 86.09	8888 C
ATO!!	4489		GLU	487	45.769		17.320	1.00 92.00	6888 0
ATOH ATOH	4490 4491	G OEC	GLU	487 487	47.637 45.735	71.452 67.436	17.026 15.841	1.00 96.51 1.00 58.84	8888 C
ATOM	4492	ō	GLU	187	46.421	67.018	16.761	1.00 61.93	BBBB O
ATOH	1193	11	ASP	188	44.748	66.661	15.474 15.932	1.00 56.50 1.00 55.61	9888 €
ATCH ATOH	4496 4495	CA CB	ASP ASP	188 188	44.446 42.947	65.347 64.977	15.699	1.00 51.22	BBBB C
ATCI:	4497	CG	ASP	488	42.047	66.008	16.267	1.00 45.27	BBBB C
ATOH ATOH	4458		ASP ASP	188 188	42.114 41.15;	66.563 66.399	17.387 15.492	1.00 56.45	8888 O
MOTA	1500	9	VSE	188	45.206	64.211	15.238	1.00 58.91	вввв 🤉
ATON	4501	0	ASP	488	44.967	63.042	15.634	1.00 57.00	N 8888 O 8888
HOTA	4502 4504	II CA	LEU	4 ii 7 4 8 5	45.933 46.659	64.513	14.163 13.528	1.00 64.03	9888 C
ATOH	1505	CB	LEU	489	46.702	63.677	12.024	1.00 62.69	BBBB C
HOTA	4506 4507	COL	LEU	489 489	45.746 44.304	62.788	11.226	1.00 53.71 1.00 51.88	8888 C
ATOH	4508		LEU	480	46.672	62.967	9.766	1.00 55.20	BBBB C
ATOI:	4509	C	LEU	489	48.017	63.355	14.210	1.00 68.12	8888 C
ATOH ATOH	4510 4511	() ()	LEU ASH	4 à Û 4 8 ō	48.850 48.306	62.560 64.318	13.836 15.063	1.00 71.57 1.00 68.24	B8BB 0 B8BB 11
ATO!!	4513	CA	ASH	490	49.497	64.424	15.855	1.00 75.04	8888 C
ATOH	4514	CB	ASU	150	49.734	65.910	16.187	1.00 84.46	8888 C
HOTA	4515 4516	OD1	ASII	490 490	51.191 52.092	66.105 65.342	16.589 16.178	1.00 97.25	8888 0
ATO!!	1517	1102	V2II	490	51.459	67.128	17.407	1.00100.47	8888 11
ATOH	4520	0	ASH	490	49.350	63.610	17.132	1.00 80.30	6888 C
HOTA	4521 4521	OT	ASH	490 490	49.891 48.510	64.012	19.001	1.00 89.51	8888 C
ATOH	1770	s	SUL.	193	37.234	-7.808	65.465	1.00108.87	s cada

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ATO: I	4771	01	รเป	493	38.452	-7.921	66.315	1.00112.65	DDDD O
ATOIL	4772	02 03	SUL	433 133	37.611	-7.973	64,000	1.00110.21	DDDD O
ATOH ATOH	1774	04	SUL	423	36.\$33 36.333	-6.555 -8.978	65.856 65.639	1.00109.93	DDDDO
ATOH	4775	S	SUL	151	56.567	19.753	66.302	1.00109.91	DDDD S
HOTA	4776 4777	01 02	SUL	494 494	56.597 57.964	19.128	67.659 65.795	1.00107.98 1.00112.59	0 0000
ATOH	4778	03	SUL	494	55.749	21.006	66.267	1.00111.35	DDDD O
ATOH	1779	04	SUL	102	55.886	18.792	65.379	1.00109.86	0 0000
ATCH ATOH	4780 4781	S 01	SUL	195 195	34.533 35.274	11.240	75.722 76.595	1.00114.67 1.00111.38	DDDD S DDDD C
HOTA	1792	63	SUL	195	35.476	10.329	74.974	1.00113.60	DDDD O
ATOH ATOH	4783 4784	04	SUL	495 495	33.552 33.773	11.960 10.279	74.748	1.00112.77	O 0000 O 0000
ATOH	4785	5	SUL	196	35.466	24.844	59.093	1.00 50.73	DDDD S
HOTA	1785	01	SUL	196	35.613	24.843	60.607	1.00 62.59	DDDD C
HOTA HOTA	4787 4788	02 03	SUI. SUL	496 496	36.002 35.880	23.581	58.571 58.455	1.00 48.59 1.00 56.74	0 DDDD O DDDD
ATOH	4789	04	SUL	196	33.958	21.953	59.034	1.00 59.34	DCDD O
ATON ATOM	4790 4791	s 01	SUL	197 197	47.653 47.849	-2.303	70.199	1.00 68.98 1.00 68.52	0000 S
ATOH	1792	02	SUL.	197	48.594	-1.058 -2.509	70.996 69.072	1.00 70.94	DDDD O
MOTA	4793	03	SUL	497	46.187	-2.393	69.810	1.00 73.47	DDDD O
ATOH ATOH	4794 4795	3 04	SUL	498 497	47.799 56.527	-3.446 35.758	71.129 75.513	1.00 71.33	DDDD S
ATOH	1796	01	SUL	168	55.870	35.013	76.621	1.00 72.97	DDDD O
ATOH	4797	02	SUL.	498	57.759	34.996	75.167	1.00 69.11	DDDD O
ATOH ATOH	1798 1799	03	SUL	158 158	56.619 55.623	37.237 35.809	75.785 74.330	1.00 72.45 1.00 72.74	O DODD O DODD
ATOH	4800	3	SUL	130	40.639	27.365	69.499	1.00 74.04	addd s
ATOL ATOH	4801 4802	01 02	SUL	155 153	40.218 42.089	26.039	76.045 69.835	1.00 76.00	O DDGC
ATOH	4803	03	SUL	199	39.823	27.608 28.467	70.098	1.00 77.27	DDDD O
ATOH	1804	04	SUL	499	40.424	27.245	68.018	1.00 75.70	DDDD O
ATOH ATOH	4805 4806	s oi	SUL	500 500	44.996 45.080	53.228 54.400	20.568	1.00 83.89	DDDD S DDDD O
HOTA	4807	02	SUL	500	46.109	52.266	20.827	1.00 90.38	0 0000
I-fota	4808	O1 O3	SUL	500 500	45.032	53.674	19.135	1.00 92.23 1.00 91.61	O DDDD
ATOM ATOM	4809 4810	OW	SUL WAT	501	43.762 29.970	52.396 6.904	20.723 77.713	1.00 34.84	0 0000
ATOH1	1913	OM	WAT	502	42.522	18.998	78.232	1.00 55.27	DDDD O
MOTA MOTA	4816 4816	OM	WAT WAT	503 504	37.561 50.446	21.003 5.721	67.518 63.485	1.00 41.63 1.00 57.37	O DDDD O DDDD
ATOH	4822	OM	WAT	505	56.668	24.854	72.729	1.00 57.34	DDDD O
ATOH	4825	OM	WAT	506	50.605	57.695	22.727	1.90 54.26	O DDDD
ATON ATON	4828 4831	OM O14	WAT WAT	507 508	55.123 17.414	37.781 -9.070	61.204 74.793	1.00 43.71	ODDD O
ATOH	1831	014	WAT	509	44.263	20.885	63.811	1.00 28.64	O DDDQ
ATOH ATOH	4837 4840	OM MO	WAT	510 511	45.085 33.537	19.708	84.433	1.00 49.09	O DDDD
ATOH	1843	OH	NAT	512	19.279	1.927	71.115 75.254	1.00 55.23	0 0000
ATOH	4846	ÜM	WAT	513	11.502	-0.835	68.996	1.00 57.51	0 0000
ATOH ATOH	4849 4852	OM OM	WAT WAT	514 515	24.591 56.947	17.207	56.665 62.552	1.00 56.36 1.00 36.47	0 DDDD O DDDD
ATOIL	1855	ON	WA'T	516	58.092	39.983	66.234	1.00 30.34	O DDDC
ATON	1858	OW	WAT	517	48.308	40.726	56.768	1.00 81.69	DDDD O
ATOH ATOH	4861 4864	OW	TAW TAW	518 519	25.776 30.644	2.355 69.108	85.630 30.765	1.00 66.34 1.00 82.28	O DDDD O DGDG
ATOH	1867	OM	WAT	5.30	38.739	54.257	43.611	1.00 43.41	O DDDD
ATOH ATOH	4970 4873	OM OIA	WAT WAT	521 522	22.996 30.939	4.470	64.871 19.364	1.00 48.71 1.00 54.00	DDDD C
ATON	1876	OW	WAT	523	32.413	9.061	42.441	1.00 44.45	© ddcd
MOTA	4879	OW	TAW	524	41.019	42.560	55.653	1.00 43.40	DDDD O
ATOH ATOH	4982 4285	OH OH	WAT WAT	525 526	54.268 37.130	51.393 13.599	37.513 81.397	1.00 55.10	0 0000
HOTA	1888	OF	WAT	527	42.585	10.244	84.472	1.00 35.95	ה מססט
ATOH ATOH	4891 4894	OH	TAW TAW	529 529	43.661 27.990	61.633 19.862	18.450 53.348	1.00 41.05 1.00 54.59	0 0000
ATOH	4897	OW	WAT	530	59.527	38.520	64.116	1.00 37.96	O DDDQ
ATOH	4900	OW	TAW	531	22.451	1.046	57.437	1.00 59.31	DDDD O
ATOH ATOH	1906 1903	OM:	WAT	532 533	30.380 46.835	16.123	70.205 65.854	1.00 40.39 1.00 52.34	O DDDD O DDDD
ATOH	1503	OM	TAW	534	39.446	49.001	45.379	1.00 46.05	O GOOD
INTA	1912	OM	WAT	535	46.992	51.272	50.702	1.00 52.62 1.00 40.61	0 DDDD O DDDD
ATOII ATOII	4618 4612	OM	TAW TAW	536 537	44.263 33 .670	10.776 58.861	73.017 20.848	1.00 40.61	0 0000
ATOH	1921	OM	WAT	538	52.469	21.639	73.804	1.00 61.98	DDDD O
HOTA	4924	OM OM	TKW	539	49.985	44.871	37.324	1.00 45.45 1.00 40.40	O DDDD
ATOH ATOH	4927 4930	OM	WAT WAT	540 541	24.074 35.207	-1.791 0.714	60.077 79.039	1.00 51.34	ס מממם
HOTA	1933	OM	WAT	542	31.231	-1.176	62.362	1.00 48.33	DDDD Q
ATOH ATOH	1636 1636	OM	TAW TAW	513 544	41.726	-5.156	55.290 72.612	1.00 60.67 1.00 71.69	0 DDD0
HOTA	4942	OW	WAT	545	49.501 48.564	37.335 40.030	67.582	1.00 44.88	DDDD O
IOTA	1945	OW	WAT	546	54.851	7.997	60.018	1,00 49.91	DDDD O

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ATCH: 1948 ON WAT 547 ATCH 1951 ON WAT 548 END

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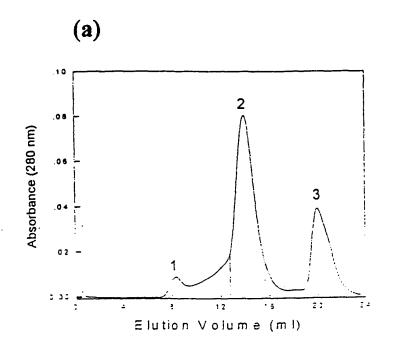
30.459 -14.058 70.554 1.00 84.42 57.310 32.779 60.848 1.00 50.77 DDDD O

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Figure 2

	335R 336R V) 338N
Face 3	310f 312D 33 (3168) 3138 315f 33 6 = 314V (344V) = 343E 338
<u> </u>	302C) 319M 302C) 319M 318Q 2G)321Q 347F 3466
2 Cleft 2	15 262D 263\$ 264E (283R) 276E 282 300K 1) 279\$ 298C (32 279\$ 298C (32
Cleff 1 Face 2	259E 261S 262D 256L 263S 3) 26E 255I 242E 241F (274M) 79W 272E 279S 3R 270D
Face 1	(61A) 59R 58F 56L 54Y 53E 242E 275G 282D 305E 310T 312D 256L 263S 264E 309K 312D 256L 263R) (61A) 59R 58F 56L 54Y 53E 242E 241F (274M) 272E 279S 298C (322G)321Q 347F 314V (344V) 115K 114E 112R 85Y 80K 79W 240R (280G) (280G) 345E 345G 343E 346M 348B
	() (355) (61A)

(b)



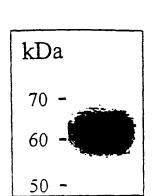


Figure 3

Conductivity mS/cm

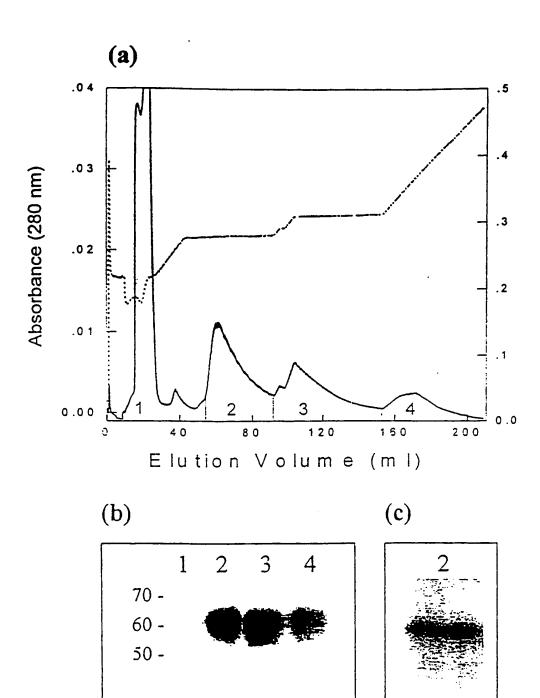


Figure 4

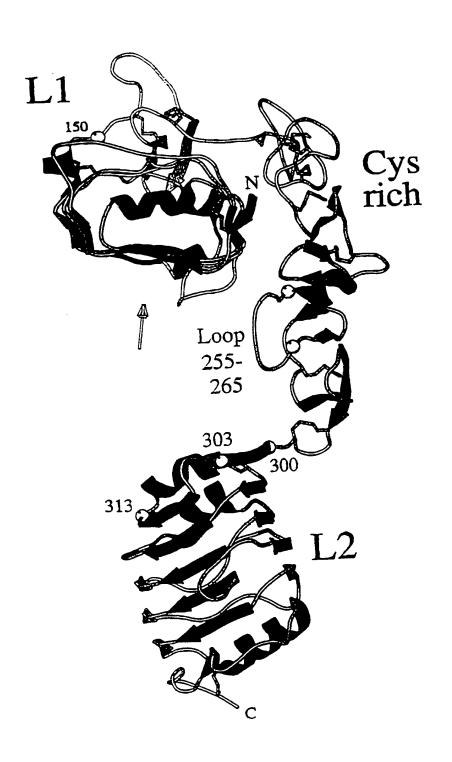


Figure 5

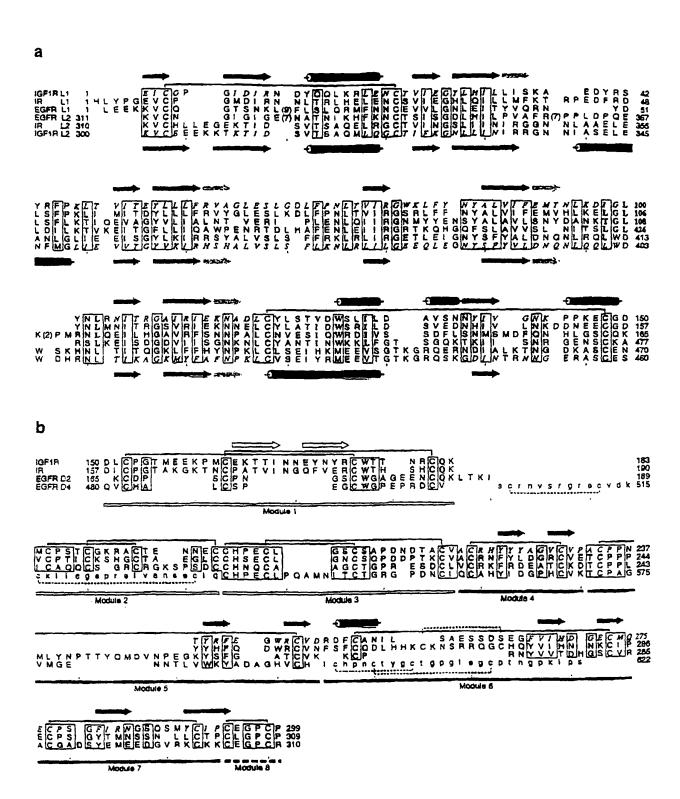


Figure 6

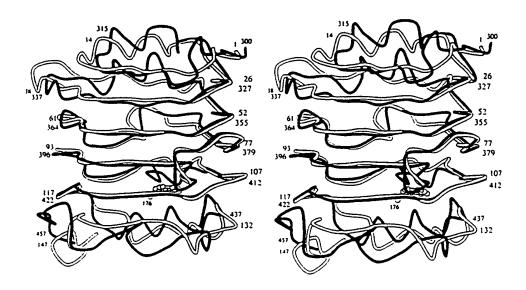
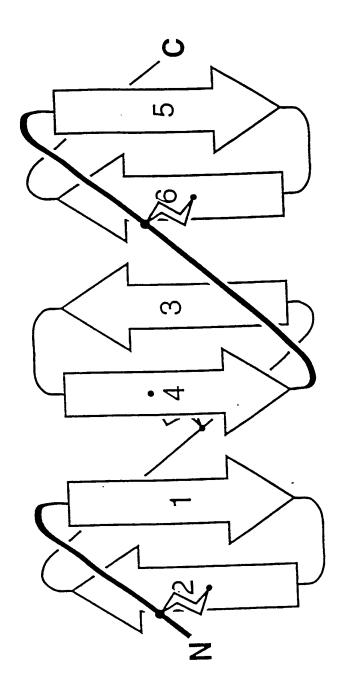


Figure 7



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Figure 9: Sequence Alignment of hIGF-1R, hIR and hIRR ectodomains.

Derived by use of the PileUp program in the software package of the Genetics Computer Group, 575 Science Drive, Madison, Wisconsin, USA.

Symbol Comparison table: GenRunData:PileUp?ep.Cmp CompCheCk: 1254 GapWeight: 3.0 GapLengthWeight: 0.1 Name: Higflr Len: 972 CheCk: 1781 Weight: 1.00 Name: Hir Len: 972 CheCk: 2986 Weight: 1.00 Name: Hirr Len: 972 CheCk: 9819 Weight: 1.00 HigflrEICGP GIDIRNDYQQ LKRLENCTVI EGYLHILLIS K..AEDYRSY 43 Hir HLYPGEVC.P GMDIRNNLTR LHELENCSVI EGHLQILLMF KTRPEDFRDL 49 HirrMNVC.P SLDIRSEVAE LRQLENCSVV EGHLQILLMF TATGEDFRGL 45 Higfle RFPKLTVITE YLLLFRVAGL ESLGDLFPNL TVIRGWKLFY NYALVIFEMT 93 Hir SFPKLIMITD YLLLFRVYGL ESLKDLFPNL TVIRGSRLFF NYALVIFEMV 99 Hirr SFPRLTQVTD YLLLFRVYGL ESLRDLFPNL AVIRGTRLFL GYALVIFEMP 95 Higfle NLKDIGLYNL RMITRGAIRI EKNADLCYLS TVDWSLILDA VSNNYIVGNK 143 HIR HLKELGLYNL MNITRGSVRI EKNNELCYLA TIDWSRILDS VEDNYIVLNK 149 Hirr HLRDVALPAL GAVLRGAVRV EKNQELCHLS TIDWGLLQPA PGANHIVGNK 145 Higfle PPK.ECGDLC PGTMEEKPM. CEKTTINNEY NYRCWTTNRC QKMCPSTCGK 191 Hir DDNEECGDIC PGTAKGKTN. CPATVINGQF VERCWTHSHC QKVCPTICKS 198 Hirr LG.EECADVC PGVLGAAGEP CAKTTFSGHT DYRCWTSSHC QRVCPCPHG. 193 Higflr RACTENNECC HPECLGSCSA PONDTACVAC RHYYYAGVCV PACPPNTYRF 241 HIR HGCTAEGLCC HSECLGNCSQ PDDPTKCVAC RNFYLDGRCV ETCPPPYYHF 248 HIR MACTARGECC HTECLGGCSQ PEDPRACVAC RHLYFQGACL WACPPGTYQY 243 *----* Higflr EGWRCVDRDF CANILSAES. ...SDSEGFV IHDGECMQEC PSGFIRNGSQ 287 Hir QDWRCVNFSF CQDLHHKCKN SRRQGCHQYV IHNNKCIPEC PSGYTMNSSN 298 Hirr ESWRCVTAER CASLHSVPG. RASTFG IHQGSCLAQC PSGFTRNSS. 287 Higfl: SMYCIPCEGP CPKVCEEEKK TKTIDSVTSA QMLQGCTIFK GNLLINIRRG 337 Hir .LLCTPCLGP CPKVCHLLEG EKTIDSVTSA QELRGCTVIN GSLIINIRGG 347 Hirr SIFCHKCEGL CPKECKV..G TKTIDSIQAA QDLVGCTHVE GSLILNLRQG 335 Higfle NNIASELENF MGLIEVVTGY VKIRHSHALV SLSFLKNLRL ILGEEQLEGN 397 HIT MNLAAELEAN LGLIEEISGY LKIRRSYALV SLSFFRKLRL IRGETLEIGN HITT YNLEPQLQHS LGLVETITGF LKIKHSFALV SLGFFKNLKL IRGDAMVDGN 397 385 Higflr YSFYVLDNON LOOLWDWDHR NLTIKAGKMY FAFNPKLCVS EIYRMEEVTG 437 HIT YSFYALDNON LROLWDWSKH NLTITOGKLF FHYNPKLCLS EIHKMEEVSG 447

Hirr YTLYVLDNON LOOLGSWVAA GLTIPVGKIY FAFNPRLCLE HIYRLEEVTG 435

			!End	of 1-462 fr	agment	
Higflr	TKGRQSKGDI	NTRNNGERAS	CESDV LHE	TS TTTSKNRI	II TWHRYRPP	DY 487
Hir		ALKTNGDQAS		SY IRTSFDKI	LL RWEPYWPP	DF 497
Hirr	TRGRQNKAEI	NPRTNGDRAA	COTRT LRF	VS NVTEADRI	LL RWERYEPL	EA 485
•						
Higflr	RDLISFTVYY	KEAPFKNVTE	YDGODA <i>C</i> GSN	SWNMVDVDLP	PNKDV	532
Hir	RDLLGFMLFY	KEAPYQNVTE	FDGODACGSN	SWTVVDIDPP	LRSNDPKSON	547
Hirr	RDLLSFIVYY	KESPFQNATE	HVGPDACGTO	SWNLLDVELP	LSRTO	530
		PWTQYAVYVK				582
Hir		PWTQYAIFVK				596
Hirr	EPGVTLASLK	PWTQYAVFVR	AITLTTEEDS	PHQGAQSPIV	YLRTLPAAPT	580
Higflr	THINVICACM	SSSQLIVKWN	DDCI DVCVI C	VVIIMWODOD	ODCYT VDIDIY	632
Hir	VPLDPISVSN	SSSQIILKWK	PREDENGNIA	TITAVAGUÕE	COCIPIEDIO	646
Hirr	VPODVISTSN	SSSHLLVRWK	PRTOPHENT	YYLVLWORLA	FOCULVINO	630
		23 STILL BY KAIK	trious.	TIBIDIQUES	DDGD11MtD1	030
	*			* ** **	*	
Higflr	CSKD.KIPIR	KYADGTIDIE	EVTENPKTEV	CGGEKGP CCA	CPKTEAE	678
Hir	CL KGLKLPSR	TWS. PPFESE	DSQKHNQSE.	YEDSAGE <i>CC</i> S	CPKTDSQ	691
Hirr		N.NDPRFDGE				673
			α	><β		
Higflr	KQAEKEEAEY	RKVFENFLHN	SIFVPRPERK	RRDVMQVANT	TMSSRSRNTT	728
Hir		RKTFEDYLHN				738
Hirr	PPLEAQEASF	QKKFENFLHN	AITIPISPWK	VTSINKSPOR	D.SGRHRRAA	722
					*	
Higflr		DPEELETEYP				
Hir		VPTSPEEHRP				
Hirr	GPLRLGG <u>NSS</u>	DFEIQEDKVP	RE	RAVLSGLRHF	TEYRIDIHAC	764
Higflr	MHEVERICES	ASNEVFARTM	DARCADOTEC	DIMMEDDDEN	STEI WINDEDT	926
Hir		VAAYVSARTM				
Hirr		AATFVFARTM				
HILL	MIDARI VGCS	AATEVEARIM	PRREADGIFG	NVAWEASSAIV	SATTEMPTERS	014
			*	*		
Higflr	NPNGLILMYE	IKYGS.QVED	ORECVSROEY	RKYGGAKLNR	LNPGNYTARI	875
Hir		VSYRRYGDEE				
Hirr		IKYRRLGEEA				
			1.10.0.0			
	QATSLSGNGS	WTDPVFFYVQ	AKTGYENFIH	L		906
Hir	RATSLAGNGS	WTEPTYFYVT	DYLDVPSNIA	K		917
Hirr	RATSLAG <u>NGS</u>	WTDSVAFYIL	GPEEEDAGGL	Н		895

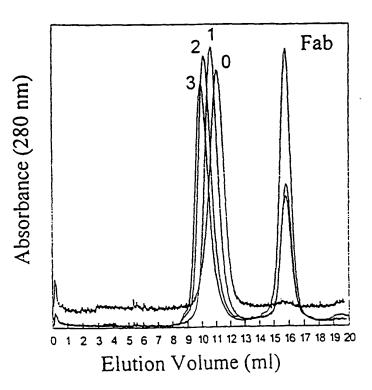


Figure 10



Schematic interpretations of EM images							
Sample	Projection along: y axis z axis x axis						
hIR		V					
hIR/ 83-7	Topial I						
hIR/ 83-14							
hIR/ 18-44/83-14							
hIR/ 83-7/18-44							
hIR/ 83-7/83-14							